





QY	1501	cacactcagggttaaaccttatgtctggcttgcggcagtgttttagctgaagt	1560
Db	1501.	CACACTCAGGGTAACTTATGCTGCCGGACTGCCTTACGCCATTAA	1560
QY	1561	caaaccttacaaaccacccggaggcacacccggggagaaaccttgcgtttaggagt	1620
Db	1561.	CAAACCTTACAAACCACAGAGGTACACAGGGAGAACCCATTAA	1620
QY	1621	gtggcgagggttacccggaaataaccctgatcacgaccaaggacaactcagggt	1680
Db	1621.	GTCGGCGAGCTTACCCGGAAACCCCTGACGCCAGAGCACCTCAGGG	1680
QY	1681	agaagccatttgtatgtctggatgtggagaggcttaatgtatagtccaccctatt	1740
Db	1681.	AGAACCCATTGTATGTCGAGTGGAGGCTTAAATGTCACCCCTATT	1740
QY	1741	cacccaggagaccatccggaaaaggctttatgtccaggagtggcacaagg	1800
Db	1741.	CACACCAAGAGACATCAGGGAAAASCCTTTATGTCAGGGAGTGAGGT	1800
QY	1801	tcccgagggactaacctqtttggacacagaggacactcaatggcttggatca	1860
Db	1801.	TTCG3CAGAGCCTAACCTTGTGTAAGTAACTCTCATTAACCCAGAGCAC	1860
QY	1861	999agtgtggcaaggctttgtgtaactctaataaccacaaagacac	1920
Db	1861.	GGAGctgtgcGAAGCTTGTGTAAGTAACTCTCATTAACCCAGAGCAC	1920
QY	1921	caggggggaaacctcatgtgtcgccggagggtggcaaggctttggcgtcac	1980
Db	1921.	CAGGGGGAAACCTCATGTCAGGGAGTGGCAAGGTTAACCGGAGTACACC	1980
QY	1981	tcatragacccaggagacatccggaaaggaaagacacttatttgccggatgg	2040
Db	1981.	TCATPAGACCCAGAGCACATCAGGAGAACCTTATTCAGAGACACTCAGGAT	2040
QY	2101	ttatgtgttagggatgtggtagccaggctttagccaggatcatcttcac	2160
Db	2101.	TTATGTGTAGGAATGGTAGCCAGGAGTCATCTCATCGACACC	2160
QY	2161	agagacacacacgtgttttttttttttttttttttttttttttttttttttttt	2220
Db	2161.	AGAGCACACAGCTGCTGGCTTACCCATTAGCAGACATCAGGAGAAC	2220
QY	2221	tctgtgtgtattatgtatgttttttttttttttttttttttttttttttttt	2280
Db	2221.	TCTGNGTGTATATGCTAGACTGACTGTTAGCTTACCCATTAGCAGACAT	2280
QY	2281	gagaatgtgttt	2340
Db	2281.	GAGAATGTGGCTCTTCAGGAGCCCTCCCTCTACTGTGATGGGTGTG	2340
QY	2341	gaaacccggcggaggtaatgtatgtggaggccggatggatggatggatgg	2400
Db	2341.	GAAACCCGGCAGGTTATGATGTGGCTCTACTGTGATGGGTGTG	2400
QY	2401	gggtacgtgttt	2460
Db	2401.	GGTACCTGTGAAACCCAACTTAAGCTGAGACGTCCGGCTAACTCTCAT	2460
QY	2461	aatccaaactgttt	2520
Db	2461.	AATTCGAACCTGTCTCCATTGTCGCTTCCGATGACCCACCTCACC	2520
QY	2521	tatTTTACGATACCTGCCCCCTTCCATTGTCGCTTCCGATGACCCACCT	2580
Db	2521.	TATTTACGATACCTGCCCCCTTCCATTGTCGCTTCCGATGACCCACCT	2580
RESULT 2			
REFERENCE	AK056243	AK056243	2854 bp mRNA linear PRI 31-OCT-2001
LOCUS		DEFINITION	Homo sapiens cDNA FLJ31681 fis, clone NT2RI2005315, highly similar to Homo sapiens mRNA for HKR1.
ACCESSION		VERSION	AK056243
KEYWORDS		oligo capping; fis (full insert sequence);	
SOURCE		Homo sapiens teratocarcinoma cell-line:NT2	CDNA to mRNA,
ORGANISM		clone:Lib:NT2RI2	clone:NT2RI2005315.
REFERENCE	1 (sites)	AUTHORS	Ishibashi,T., Kanehori,K., Yosida,M., Watanabe,S., Ishida,S., Ono,Y., Horuta,T., Hiraoka,S., Murakawa,K., Takiguchi,S., Kusano,J., Watanabe,M., Fujimori,K., Tanai,H., Ishida,M., Yamashita,H., Chiba,Y., Irie,H., Otsuki,T., Sato,H., Wakamatsu,A., Ishii,Y., Yamamoto,J., Isono,Y., Kawai-Hio,Y., Saito,K., Nishikawa,T., Kimura,K., Wagatsuma,M., Takahashi-Fujii,A., Sekine,M., Kikuchi,H., Kanda,K., Sugiyama,A., Kawakami,B., Suzuki,Y., Sugano,S., Oshima,A., Sugiyama,A., Nagahashi,K., Masuho,Y., Nagai,K., and Isogai,T.
COMMENT		TITLE	NEDO human cDNA sequencing project
REFERENCE	2 (bases 1 to 2854)	AUTHORS	Isogai,T., Otsubo,T. and Sugiyama,T.
JOURNAL		TITLE	Direct Submission
COMMENT		JOURNAL	Submitted (24-OCT-2001) Taeko Isogai, Helix Research Institute, Genomics Laboratory, 15-3 Yana, Kisarazu Chiba 292-0812, Japan (E-mail:genomics@ri.helix.co.jp), Tel:81-438-52-3951, Fax:81-438-52-3952
FEATURES	source	COMMENT	NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology (RAB); cDNA library construction: Helix Research Institute (HRI) (supported by Japan Key Technology Center etc.); 5'-& 3'-end one pass sequencing: RAB, HRI, and Biotechnology Center, National Institute of Technology and Evaluation; clone selection for full insert sequencing: RAB and HRI.
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		/cell_type="teratocarcinoma"	
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		/note="cloning vector: pME18SFL3-mRNA from NT2 neuronal precursor cells treated 2-weeks mitotic inhibitor after 5-weeks retinoic acid (RA) induction. -majorly NT2 neuron."	
BASE COUNT	761	761 a	596 692 c 754 g 647 t
ORIGIN			
Query Match			86.0%; Score 2383; DB 9; Length 2854;







		Query	Match	Score	DB	Length
*	*	9087	10090: contig of 1004 bp in length	81.0%	2244;	DB 2;
*	*	10091	10190: gap of unknown length			
*	*	11225:	contig of 1035 bp in length			
*	*	11325:	gap of unknown length			
*	*	11326:	contig of 1040 bp in length			
*	*	12365:	gap of unknown length			
*	*	12465:	contig of 2070 bp in length			
*	*	14535:	gap of unknown length			
*	*	14635:	contig of 1854 bp in length			
*	*	16490:	16589: gap of unknown length			
*	*	19109:	contig of 2520 bp in length			
*	*	19110:	19209: gap of unknown length			
*	*	19210:	21841: contig of 2632 bp in length			
*	*	21842:	21941: gap of unknown length			
*	*	23736:	23735: contig of 1794 bp in length			
*	*	23835:	25861: gap of unknown length			
*	*	23836:	25862: contig of 2026 bp in length			
*	*	25862:	25961: gap of unknown length			
*	*	25962:	29117: contig of 3156 bp in length			
*	*	29118:	29217: gap of unknown length			
*	*	31908:	32007: gap of unknown length			
*	*	32008:	36364: contig of 4357 bp in length			
*	*	36365:	36464: gap of unknown length			
*	*	36465:	43310: contig of 6845 bp in length			
*	*	43310:	43409: gap of unknown length			
*	*	43410:	43410: contig of 4776 bp in length			
*	*	48186:	48285: gap of unknown length			
*	*	48286:	55626: contig of 7341 bp in length			
*	*	55626:	55726: gap of unknown length			
*	*	55727:	65781: contig of 10055 bp in length			
*	*	65782:	65881: gap of unknown length			
*	*	65882:	69671: contig of 3792 bp in length			
*	*	69671:	69773: gap of unknown length			
*	*	69774:	79389: contig of 9616 bp in length			
*	*	79389:	79489: gap of unknown length			
*	*	79489:	91453: contig of 11964 bp in length			
*	*	91454:	91553: gap of unknown length			
*	*	91554:	96671: contig of 3755 bp in length			
*	*	96672:	96771: gap of unknown length			
*	*	96772:	100544: contig of 3773 bp in length			
*	*	100544:	100644: gap of unknown length			
*	*	100644:	111424: gap of unknown length			
*	*	111424:	111523: gap of unknown length			
*	*	111523:	115278: contig of 2038 bp in length			
*	*	115278:	115378: gap of unknown length			
*	*	115378:	124011: contig of 8633 bp in length			
*	*	124011:	124111: gap of unknown length in length			
*	*	124111:	124112: gap of unknown length in length			
*	*	124112:	138476: contig of 14364 bp in length			
*	*	138476:	138575: gap of unknown length			
*	*	138575:	140613: contig of 2038 bp in length			
*	*	140613:	140713: gap of unknown length			
*	*	140713:	144949: contig of 4236 bp in length			
*	*	144949:	145049: gap of unknown length			
*	*	145049:	164352: contig of 19303 bp in length			
*	*	164352:	164542: gap of unknown length			
*	*	164542:	170540: contig of 608 bp in length			
*	*	170540:	170640: gap of unknown length			
*	*	170640:	170641: contig of 14406 bp in length			
*	*	170641:	185047: gap of unknown length			
*	*	185047:	222209: contig of 37063 bp in length			
*	*	222209:	222310: gap of unknown length			
*	*	222310:	25217: contig of 30908 bp in length.			
1. . 25217:	Location/Qualifiers	source	/organism="Homo sapiens"			
		/db_xref="taxon:606"	/clone,"CTD-3220F14"			
		/chromosome="19"	/clone.lib="Caltech human BAC library D"			
BASE COUNT	62246	a	62867	c	62532	g
	62246	a	62867	c	61752	t
					3820	others











Sequencing vector: plasmid; 100%  
 Chemistry: dye-primer ET; 0% of reads  
 Assembly program: phrap; version 0.990319  
 Consensus quality: 160310 bases at least Q40  
 consensus quality: 160738 bases at least Q30  
 Insert size: 164000; agarose-fp  
 Quality coverage: 7.76 in 020 bases; agarose-fp  
 Quality coverage: 8.11 in 020 bases; sum-of-contigs  
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 \* NOTE: This is a 'working draft' sequence. It currently  
 \* consists of 3 contigs. The true order of the pieces  
 \* is not known and their order in this sequence record is  
 \* arbitrary. Gaps between the contigs are represented as  
 \* runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 \* as soon as it is available and the accession number will  
 \* be preserved.  
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 \* 3023: contig of 3023 bp in length  
 \* 3124 3123: gap of unknown length  
 \* 115853: contig of 112730 bp in length  
 \* 115853: gap of unknown length  
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 source  
 1. .130351  
 /organism="Homo sapiens"  
 /clone="RP11-420a23"  
 BASE COUNT  
 ORIGIN  
 38785 a 26050 c 26300 g 39176 t 40 others  
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 Query Match 1.3%; Score 37; DB 2; Length 130351;  
 Best Local Similarity 100.0%; Pred. No. 2.4e-09;  
 Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 SOURCE  
 QY 2462 atttggaaacctgtttccattttgtgtgttttc 2498  
 Db 69153 ATTGAGAACCTGCTTCCATTGGTGTGCTTC 69189  
 RESULT 10  
 AC096898 AC096898 161625 bp DNA linear HTG 12-JAN-2002  
 LCCUS DEFINITION Homo sapiens chromosome 4 clone RP11-618K19, WORKING DRAFT  
 SEQUENCE, 3 unordered pieces.  
 ACCESSION AC096898  
 VERSION AC096898.5 GI:18139542  
 KEYWORDS HPG; HGVS\_PHASE1; HTGS\_DRAFT; HGVS\_ACTIVEFIN.  
 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.  
 REFERENCE 1 (bases 1 to 161625)  
 AUTHORS Waterston, R.H.  
 TITLE The sequence of Homo sapiens clone  
 JOURNAL Unpublished  
 2 (bases 1 to 161625)  
 Waterston, R.H.  
 Direct Submission  
 Submitted (01-OCT-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA  
 On Jan 12, 2002 this sequence version replaced gi:1792173.  
 COMMENT ----- genome Center -----  
 Center: Washington University Genome Sequencing Center  
 Center code: WUGSC  
 Web site:<http://genome.wustl.edu/gsc/index.shtml>  
 Contact: submissions@watson.wustl.edu  
 ----- Project Information -----  
 Center project name: H\_NHG618K19  
 ----- Summary Statistics -----  
 Sequencing vector: M13; 0%  
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 source  
 1. .130351  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /clone="RP11-420a23"  
 BASE COUNT  
 ORIGIN  
 38785 a 26050 c 26300 g 39176 t 40 others  
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 Query Match 1.3%; Score 37; DB 2; Length 161625;  
 Best Local Similarity 100.0%; Pred. No. 2.4e-09;  
 Matches 37; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 SOURCE  
 QY 2462 atttggaaacctgtttccattttgtgtgttttc 2498  
 Db 110301 ATTGAGAACCTGCTTCCATTGGTGTGCTTC 110337  
 RESULT 11  
 AC034197 AC034197 164264 bp DNA linear HTG 29-MAY-2000  
 LCCUS DEFINITION Homo sapiens chromosome 3 clone RP11-72801 map 3p, WORKING DRAFT  
 SEQUENCE, 14 unordered pieces.  
 ACCESSION AC034197  
 VERSION AC034197.3 GI:8101273  
 KEYWORDS HPG; HGVS\_PHASE1; HTGS\_DRAFT.  
 SOURCE  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates  
 1 (bases 1 to 164264)  
 AUTHORS Bao,J., Bao,Q., Bao,W., Bian,X., Cao,T., Chen,C., Chen,J., Ding,H., Dong,W., Fan,H., Feng,X., Guan,Q., Guo,X., Guo,D., He,L., Hu,S., Huang,F., Jin,Y., Kang,N., Li,C., Li,C., Li,G., Li,J., Li,L., Li,S., Li,T., Liu,R., Liu,N., Liu,Y., Liu,Y., Li,W., Li,W., Li,Y., Luo,J., Niuy,Y., Qi,O., Qi,X., Song,S., Sun,M., Sun,W., Sun,Y., Tao,R., Wang,H., Wang,J., Wang,J., Wang,L., Wang,L., Wang,R.,  
 -----

**TITLE** Wang,A., Wang,X., Wang,Y., Wu,Q., Xie,F., Xuan,Z., Xue,Y., Yan,C., Yang,X., Yu,B., Zeng,Y., Zhang,G., Zhang,H., Zhang,J., Zhang,L., Zhang,M., Zhang,X., Zhang,Y., Zhang,Y., Zhang,Z., Zhu,B., Yu,J. and Yang,H.  
**JOURNAL** Chromosome 3p genomic sequence  
**REFERENCE** Unpublished  
**AUTHORS**  
 2 (bases 1 to 164264)  
 Zeng,Y., Hu,S., Dong,W., Wang,J., Zhang,Y., Zhang,H., Liu,B., Bao,W., Sun,Y., Wu,Q., Wang,H., Yang,X., Cheng,C., Wang,Y., Niu,Y., QI,X., Li,T., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H., Liu,Y., Li,G., Li,C., Bao,J., Wang,X., Song,L., Zhang,L., Guo,D., Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L., Feng,X., Yu,J. and Yang,H.  
**COMMENT** Direct Submission  
 Submitted (05-APR-2000) Human Genomic Center, Institute of Genetics, Chinese Academy of Sciences, Datun Road, Beijing, Beijing 100101, P.R.China  
 On May 29, 2000 this sequence version replaced gi:764465.  
**Center** Genome Center  
**Center code** Beijing  
**Website** http://hgc.genomics.org.cn  
**Contact** hgc@igtp.ac.cn  
**Project Information**  
 Center project name:1& project  
**Clone name**: RP11-72B01  
**Summary Statistics**  
**sequencing vector**: pUC18; 100% of reads  
**chemistry**: Dye-terminator Big Dye; 45% of reads  
**Assembly program**: Phrap; version 0.990329  
**Consensus quality**: 15901 bases at least Q40  
**Consensus quality**: 163151 bases at least Q30  
**Insert size**: 158755; sum-of-contigs  
**Quality coverage**: 4.57x in Q20 bases; sum-of-contigs  
  
 \* NOTE: This is a 'working draft' sequence. It currently  
 \* consists of 14 contigs. The true order of the pieces  
 \* is not known and their order in this sequence record is  
 \* arbitrary. Gaps between the contigs are represented as  
 \* runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 \* as soon as it is available and the accession number will  
 \* be preserved.  
 \*  
 1 2043: contig of 2043 bp in length  
 \* 2144 2143: gap of 407: contig of 2043 bp in length  
 \* 2144 4408: 4507: gap of unknown length  
 \* 2144 4408: 5590: contig of 1083 bp in length  
 \* 2144 5591: 5690: gap of unknown length  
 \* 2144 5691: 8894: contig of 3204 bp in length  
 \* 2144 8895: 8994: gap of unknown length  
 \* 2144 8995: 12938: contig of 3944 bp in length  
 \* 2144 12939: 13038: gap of unknown length  
 \* 2144 13039: 19151: contig of 6113 bp in length  
 \* 2144 19152: 19251: gap of unknown length  
 \* 2144 19252: 24784: contig of 5533 bp in length  
 \* 2144 24885: 23277: gap of unknown length  
 \* 2144 24885: 32378: contig of 7493 bp in length  
 \* 2144 32378: 32477: gap of unknown length  
 \* 2144 32477: 41545: contig of 6068 bp in length  
 \* 2144 41645: 41645: gap of unknown length  
 \* 2144 41646: 50878: contig of 9233 bp in length  
 \* 2144 50978: 62812: gap of unknown length  
 \* 2144 50979: 62812: contig of 11834 bp in length  
 \* 2144 62813: 62812: gap of unknown length  
 \* 2144 62813: 62813: contig of 25876 bp in length  
 \* 2144 88789: 88888: gap of unknown length  
 \* 2144 88889: 115986: contig of 27058 bp in length  
 \* 2144 115987: 116086: gap of unknown length  
 \* 2144 116087: 116264: contig of 48178 bp in length.

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misc_feature	2144..4407
misc_feature	/note="assembly_name:Contig5"
misc_feature	4508..5590
misc_feature	/note="assembly_name:Contig7"
misc_feature	8995..12938
misc_feature	/note="assembly_name:Contig9"
misc_feature	5691..8894
misc_feature	/note="assembly_name:Contig7"
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misc_feature	/note="assembly_name:Contig10"
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misc_feature	/note="assembly_name:Contig12"
misc_feature	41646..50878
misc_feature	/note="assembly_name:Contig13"
misc_feature	50979..62812
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misc_feature	62913..88788
misc_feature	/note="assembly_name:Contig15"
misc_feature	8889..115986
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misc_feature	/note="assembly_name:Contig17"
BASE COUNT	46659
ORIGIN	a /32302 C 32891 g 51080 t 1332 others
RESULT	12
ACCESSION	AC059265
DEFINITION	AC069265 Human chromosome 3 clone RP11-208K18 map 3p, WORKING DRAFT
VERSION	AC069265.2 GI:8101151
KEYWORDS	HTG; HTGS_PHASE1; HTGS_DRAFT.
SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	1 (bases 1 to 165379)
AUTHORS	Bao,J., Bao,O., Bao,W., Bian,X., Cao,T., Chen,C., Chen,J., Ding,H., Dong,W., Fan,H., Feng,X., Guan,Q., Gu,X., Guo,D., He,L., Hu,S., Huang,F., Jin,Y., Kang,N., Li,C., Li,C., Li,G., Li,J., Li,L., Li,S., Li,T., Liu,Y., Liu,N., Liu,B., Liu,W., Liu,W., Li,Y., Luo,J., Niu,Y., Qi,Q., Qi,X., Song,S., Sun,M., Sun,W., Sun,Y., Tao,R., Wang,H., Wang,J., Wang,J., Wang,L., Wang,L., Wang,R., Wang,X., Wang,Y., Wu,D., Wu,O., Xie,F., Xuan,Z., Xue,Y., Yan,C., Yang,X., Yu,B., Zeng,Y., Zhang,G., Zhang,H., Zhang,H., Zhang,L., Zhang,M., Zhang,X., Zhang,Y., Zhang,Y., Zhang,Y., Zhang,Z., Zhu,B., Yu,J. and Yang,H.

TITLE		Chromosome 3p genomic sequence					
JOURNAL		Unpublished					
REFERENCE		2 (bases 1 to 165379)					
AUTHORS		Wang,L., Hu,S., Dong,W., Wang,J., Zhang,Y., Zhang,H., Liu,B., Bao,W., Sun,Y., Wu,Q., Wang,H., Yang,X., Cheng,C., Wang,Y., Niu,Y., Qi,X., Li,T., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H., Liu,Y., Li,G., Li,C., Bao,Q., Bao,J., Wang,X., Song,L., Zhang,L., Guo,D., Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L., Feng,X., Yu,J.					
TITLE		and Yang,H.					
JOURNAL		Direct Submission					
COMMENT		Submitted (23-MAY-2000) Human Genomic Center, Institute of Genetics, Chinese Academy of Sciences, Datun Road, Beijing, China 100101, P.R.China					
Center:Beijing Center		On May 29, 2000 this sequence version replaced gi:8039668.					
Center code:Beijing		Genome Center					
Website: <a href="http://hgc.igtp.ac.cn">http://hgc.igtp.ac.cn</a>		<a href="http://www.genomics.org.cn">http://www.genomics.org.cn</a>					
Contact: <a href="mailto:hgc@igtp.ac.cn">hgc@igtp.ac.cn</a>							
Center project name:1&#8226; project		Project Information					
Center clone name:RP11-208K18		Center clone name:RP11-815J19					
-----		Summary Statistics					
Sequencing vector: pUC18; 100% of reads		Sequencing vector: pUC18; 100% of reads					
Chemistry: Dye-terminator: ET 55% of reads		Chemistry: Dye-terminator: ET 55% of reads					
Assembly program: Phrap; version 0.990329		Assembly program: Phrap; version 0.990329					
Consensus quality: 146985 bases at least Q40		Consensus quality: 146985 bases at least Q40					
Consensus quality: 167323 bases at least Q30		Consensus quality: 167323 bases at least Q30					
Insert size: 122192; sum-of-contigs		Insert size: 122192; sum-of-contigs					
Quality coverage: 3.83x in Q20 bases; sum-of-contigs		Quality coverage: 3.83x in Q20 bases; sum-of-contigs					
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misc_feature		/note="assembly_name:Contig6"					
misc_feature		/note="assembly_name:Contig7"					
misc_feature		/note="assembly_name:Contig8"					
misc_feature		/note="assembly_name:Contig9"					
RESULT		QY 2462 attgaaacaccttccatgtggtggtttcctc 2498					
BASE COUNT		Db 83850 ATTGAGAACCTGCTCCATTGGTGGCTTTC 83886					
DEFINITION		Query Match 1.3%; Score 37; DB 2; Length 165379; Best Local Similarity 100.0%; Prev. No. 2.4e-09; Mismatches 0; Indels 0; Gaps 0;					
LOCUS		LOCUS AC026219 Homo sapiens chromosome 3 clone RP11-815J19 map 3p, WORKING DRAFT					
SEQUENCE		SEQUENCE, 56 unordered pieces.					
REFERENCE		REFERENCE 1 (bases 1 to 184375)					
ACCESSION		ACCESSION AC026219.2 GI:8101287					
VERSION		VERSION HTG; HTGS_PHASE1; HTGS_DRAFT.					
KEYWORDS		KEYWORDS human;					
SOURCE		SOURCE HOMO sapiens					
ORGANISM		ORGANISM Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.					
AUTHORS		AUTHORS Bao,J., Bao,Q., Bao,W., Bian,X., Cao,T., Chen,C., Chen,J., Ding,H., Dong,W., Fan,H., Feng,X., Guan,Q., Gu,X., Guo,D., He,L., He,Y., Huang,F., Jin,Y., Kang,N., Li,C., Li,C., Li,G., Li,J., Li,L., Li,S., Li,T., Liu,Y., Liu,N., Liu,B., Liu,Y., Li,W., Li,Y., Luo,J., Niu,Y., Qi,O., Qi,X., Song,S., Sun,M., Sun,W., Sun,Y., Tao,R., Wang,H., Wang,J., Wang,L., Wang,L., Wang,R., Wang,X., Wang,X., Wu,D., Wu,Q., Xie,F., Xian,Z., Xue,Y., Zhang,L., Zhang,M., Zhang,X., Zhang,X., Zhang,Y., Zhang,H., Zhang,Z., Zhu,B., Yu,J. and Yang,H.					
TITLE		TITLE Chromosome 3p genomic sequence					
JOURNAL		JOURNAL Unpublished					
REFERENCE		REFERENCE 2 (bases 1 to 184375)					
AUTHORS		AUTHORS Bao,W., Sun,Y., Wu,Q., Wang,H., Yang,X., Cheng,C., Wang,Y., Niu,Y., Qi,X., Li,T., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H., Liu,Y., Li,G., Li,C., Bao,Q., Bao,J., Wang,X., Song,L., Zhang,L., Guo,D., Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L., Feng,X., Yu,J.					
TITLE		TITLE Chromosome 3p genomic sequence					
JOURNAL		JOURNAL Unpublished					
REFERENCE		REFERENCE 2 (bases 1 to 184375)					
AUTHORS		AUTHORS Bao,W., Sun,Y., Wu,Q., Wang,H., Yang,X., Cheng,C., Wang,Y., Niu,Y., Qi,X., Li,T., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H., Liu,Y., Li,G., Li,C., Bao,Q., Bao,J., Wang,X., Song,L., Zhang,L., Guo,D., Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L., Feng,X., Yu,J.					
TITLE		TITLE Chromosome 3p genomic sequence					
JOURNAL		JOURNAL Unpublished					
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JOURNAL		JOURNAL Unpublished					
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AUTHORS		AUTHORS Bao,W., Sun,Y., Wu,Q., Wang,H., Yang,X., Cheng,C., Wang,Y., Niu,Y., Qi,X., Li,T., Zhang,H., Liu,N., Wu,D., Yu,B., Fan,H., Liu,Y., Li,G., Li,C., Bao,Q., Bao,J., Wang,X., Song,L., Zhang,L., Guo,D., Huang,F., Zhang,G., Li,J., Bian,X., Zhang,M., Li,L., Feng,X., Yu,J.					
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JOURNAL		JOURNAL Unpublished					
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JOURNAL		JOURNAL Unpublished					
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JOURNAL		JOURNAL Unpublished					
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JOURNAL		JOURNAL Unpublished					
REFERENCE		REFERENCE 2 (bases 1 to 184375)					
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TITLE		TITLE Chromosome 3p genomic sequence					

\* NOTE: This is a 'working draft' sequence. It currently  
 \* consists of 56 contigs. The true order of the pieces  
 \* is not known and their order in this sequence record is  
 \* arbitrary. Gaps between the contigs are represented as  
 \* runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 \* as soon as it is available and the accession number will  
 \* be preserved.

1 1389: contig of 1389 bp in length  
 1390 1489: gap of unknown length  
 1490 3602: contig of 2113 bp in length  
 3603 3702: gap of unknown length  
 3703 6147: contig of 2445 bp in length  
 6147 6247: gap of unknown length  
 6248 7841: contig of 1594 bp in length  
 7841 7941: gap of unknown length  
 7942 9669: gap of unknown length  
 9570 9669: gap of unknown length  
 9570 11970: contig of 2301 bp in length  
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 13210 13309: gap of unknown length  
 13310 14906: contig of 1597 bp in length  
 14907 15006: gap of unknown length  
 15007 15915: contig of 1909 bp in length  
 15916 18655: gap of unknown length  
 18655 18755: contig of 1640 bp in length  
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 18756 20914: contig of 2219 bp in length  
 20915 21074: gap of unknown length  
 21075 2209: contig of 1335 bp in length  
 22110 22505: gap of unknown length  
 22510 24337: contig of 1828 bp in length  
 24337 24941: gap of unknown length  
 24942 24438: contig of 1389 bp in length  
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 25827 25926: contig of 1843 bp in length  
 25927 27863: gap of unknown length  
 27870 29441: contig of 1572 bp in length  
 29442 29541: gap of unknown length  
 29542 32494: contig of 2953 bp in length  
 32495 32554: gap of unknown length  
 32554 34633: contig of 2039 bp in length  
 34634 37159: contig of 2426 bp in length  
 37160 37259: gap of unknown length  
 37260 39230: contig of 1971 bp in length  
 39330: gap of unknown length  
 39331 40642: contig of 1312 bp in length  
 40643 40742: gap of unknown length  
 40743 42739: contig of 197 bp in length  
 42739 42840: gap of unknown length  
 42840 45245: contig of 2406 bp in length  
 45245 45346: gap of unknown length  
 45346 47084: contig of 1738 bp in length  
 47083: gap of unknown length  
 47184 49945: contig of 2762 bp in length  
 49946 50045: gap of unknown length  
 50046 51544: contig of 1499 bp in length  
 51545 51645: gap of unknown length  
 51645 53991: contig of 2247 bp in length  
 53992 57221: gap of unknown length  
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 60117 62563: contig of 2447 bp in length  
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DEFINITION Homo sapiens chromosome 17 clone RP11-17D1 map 17, WORKING DRAFT  
 SEQUENCE, 13 unordered pieces.

ACCESSION AC027579.2 GI:8671976  
 VERSION HMG; HGSC-PHASEL; HGCS\_DRAFT.

KEYWORDS human.

SOURCE Homo sapiens

ORGANISM Homo sapiens

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 148270)

AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N., Mammalia: Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 148270) Birren,B., Linton,L., Nusbaum,C. and Lander,E.

TITLE Homo sapiens chromosome 17, clone RP11-17D1

REFERENCE 2 (bases 1 to 148270)

AUTHORS Birren,B., Linton,L., Nusbaum,C., Lander,E., Abraham,H., Allen,N., Anderson,S., Baldwin,J., Barna,N., Bastien,V., Beda,F., Boguslavsky,I.L., Boukigalter,B., Brown,A., Burkett,G., Campopiano,A., Castile,A., Chopepe,Y., Colangelo,M., Collins,S., Collymore,A., Cooke,P., DeAngelis,K., Dewar,K., Diaz,J.S., Dodge,S., Domino,M., Doyle,M., Ferrara,P., FitzHugh,W., Gage,D., Galagan,J., Gardyne,S., Ginder,S., Goyley,M., Graham,L., Grand-Pierre,N., Grant,G., Hagos,B., Heaford,A., Horton,L., Howland,J.C., Iliev,R., Johnson,R., Jones,C., Kann,L., Karatas,A., Klein,J., LaRocque,K., Lamazares,R., Landers,T., Lebocky,J., Levine,R., Lieu,C., Liu,G., Locke,K., Macdonald,P., Marquis,N., McCarthy,M., McEwan,P., McGurk,A., McKernan,K., McSheeters,R., Meldrim,J., Menuez,L., Minova,V., Miranda,C., Mlenga,V., Morrow,J., Murphy,T., Naylor,J., Norman,C.H., O'Connor,T., O'Donnell,P., O'Neil,D., Oliver,T.M., Oliver,J.J., Petersen,K., Pierre,N., Pisani,C., Polvar,V., Raymond,C., Riley,R., Rogov,P., Rothman,D., Roy,A., Santos,R., Schauer,S., Severy,P., Spencer,B., Strange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J., Tesfaye,S., Theodore,J., Tirrell,A., Travers,M., Trigilio,J., Vassiliev,H., Viel,R., Vo,A., Wilson,B., Wu,X., Wyman,D., Ye,W.J., Young,G., Zainoun,J.J., Zimmer,A. and Zody,M.

JOURNAL Direct Submission

COMMENT Submitted (30-MAR-2000) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA  
 On Jun 23, 2000 this sequence version replaced gi:7342324.  
 All repeats were identified using RepeatMasker:  
 Smit, A.P.A. & Green, P. (1996-1997)  
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

----- Genome Center  
 Center: Whitehead Institute/ MIT Center for Genome Research  
 Center code: WIBR  
 Web site: <http://www.seq.wi.mit.edu>  
 Contact: sequence\_submissions@genome.wi.mit.edu  
 ----- Project Information  
 Center project name: l9001  
 Center clone name: 17\_D\_1  

----- Summary Statistics

Sequencing vector: M13; M77815; 100% of reads  
 Chemistry: Dye-terminator Big Dye; 100% of reads  
 Assembly program: Phrap; version 0.950731  
 Consensus quality: 141141 bases at least Q40  
 Consensus quality: 14792 bases at least Q30  
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 Quality coverage: 4.7 in Q20 bases; agarose-fp  
 Quality coverage: 4.8 in Q20 bases; sum-of-contigs

BASE COUNT . 40333 a 32099 c 32432 g 42206 t 1200 others

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\* NOTE: This is a 'working-draft' sequence. It currently consists of 13 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

\* 1 131: contig of 131 bp in length

\* 132 231: gap of 100 bp

\* 232 4256: contig of 4025 bp in length

\* 4257 4356: gap of 100 bp

\* 4357 6715: contig of 2359 bp in length

\* 6716 6815: gap of 100 bp

\* 6816 12854: contig of 6039 bp in length

\* 12855 12944: gap of 100 bp

\* 12955 18900: contig of 5946 bp in length

\* 18901 19000: gap of 100 bp

\* 19001 25560: contig of 8560 bp in length

\* 27561 27660: gap of 100 bp

\* 27661 41935: contig of 14275 bp in length

\* 41936 42035: gap of 100 bp

\* 58175: contig of 16140 bp in length

\* 58176 58275: gap of 100 bp

\* 58276 70930: contig of 12655 bp in length

\* 70931 71030: gap of 100 bp

\* 71031 871632: contig of 16602 bp in length

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\* 87733 10759: contig of 17027 bp in length

\* 104760 104859: gap of 100 bp

\* 104860 123863: contig of 19004 bp in length

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## ORIGIN

Query Match 1.3%; Score 36; DB 2; Length 148270;  
 Best Local Similarity 100.0%; Pred. No. 9.e-09;  
 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2462 attgagaacctgtctccatgggtgtgtttct 2497  
 Db 76167 ATGAGAACCTGCTTCCATTTGGGTGCCT 76202

RESULT 15  
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 Locus AC022727 174405 bp DNA linear HTG 26-MAY-2000  
 DEFINITION Homo sapiens chromosome 18 clone RP11-308J14 map 18, WORKING DRAFT  
 SEQUENCE 11 unordered pieces.

ACCESSION AC022727  
 VERSION AC022727.4 61:8072614  
 KEYWORDS HTG; HTGS\_PHASEL; HTGS\_DRAFT.  
 SOURCE human.  
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 174405)  
 AUTHORS Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N.,  
 Mammalia; Eutheria; Primates; Catarrhini; Homindae; Homo.  
 TITLE Homo sapiens chromosome 18, clone RP11-308J14  
 JOURNAL Unpublished

REFERENCE 2 (bases 1 to 174405)  
 AUTHORS Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N.,  
 Anderson, S., Baldwin, J., Barna, N., Beckerly, R., Beda, F.,  
 Bouckley, L., Boukhegitter, B., Brown, A., Burkert, G., Castle, A.,  
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 Tirrell, A., Vassiliev, H., Zimmer, A., and Zody, M.

TITLE Direct Submission

JOURNAL Submitted (06-FEB-2000) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

COMMENT On May 25, 2000 this sequence version replaced gi:7658384.  
 All repeats were identified using RepeatMasker:  
 Smith, A.F.A. & Green, P. (1996-1997)  
<http://ftp.genome.washington.edu/RM/RepeatMasker.html>

----- Genome Center  
 Center : Whitehead Institute/ MIT Center for Genome Research  
 Center code: WIBR  
 Web site: <http://www-seq.wi.mit.edu>  
 Contact: [sequence.submissions@genome.wi.mit.edu](mailto:sequence.submissions@genome.wi.mit.edu)  
 ----- Project Information  
 center project name: t5488  
 Center clone name: 308\_J\_14  
 ----- Summary Statistics  
 Sequencing vector: M13; M7815; 100% of reads  
 Chemistry: Dye-terminator Big dye; 100% of reads  
 Assembly program: Phrap; version 0.960731  
 Consensus quality: 16989 bases at least 040  
 Consensus quality: 172164 bases at least 030  
 Consensus quality: 173032 bases at least 020  
 Insert size: 177000; agarose-fp  
 Insert size: 173405; sum-of-contigs  
 Quality coverage: 4.8 in Q20 bases; agarose-fp  
 Quality coverage: 4.9 in Q20 bases; sum-of-contigs

\* NOTE: This is a 'working draft' sequence. It currently  
 \* consists of 11 contigs. The true order of the pieces  
 \* is not known and their order in this sequence record is  
 \* arbitrary. Gaps between the contigs are represented as  
 \* runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 \* as soon as it is available and the accession number will  
 \* be preserved.  
 \* 1 6450: gap of 100 bp  
 \* 1 6551 12911: contiguous of 6361 bp in length  
 \* 1 12912 13011: gap of 100 bp  
 \* 1 22058 22157: contiguous of 9046 bp in length  
 \* 2 2158 32811: contiguous of 10684 bp in length  
 \* 3 32842 32941: gap of 100 bp  
 \* 3 32942 48367: contiguous of 15426 bp in length  
 \* 4 48368 48467: gap of 100 bp  
 \* 4 48468 63919: contiguous of 15452 bp in length  
 \* 5 63920 64019: gap of 100 bp  
 \* 5 64020 78239: contiguous of 14240 bp in length  
 \* 6 78360 78359: gap of 100 bp  
 \* 7 78360 94115: contiguous of 20056 bp in length  
 \* 8 98416 98515: gap of 100 bp  
 \* 9 98516 121876: contiguous of 23361 bp in length  
 \* 10 121877 121976: gap of 100 bp  
 \* 11 121977 144489: contiguous of 22513 bp in length  
 \* 12 144490 144589: gap of 100 bp  
 \* 13 144590 17405: contiguous of 29816 bp in length.  
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 vector\_side:left  
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 144590. 17405  
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 ORIGIN

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 Matches 36; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2462 attgagaacctgtctccatgggtgtgtttct 2497

Sat May 18 14:46:05 2002

us-09-898-556a-3.rge

Page 19

Db 127497 ATTGAGAACCTGCTTCCATTGGTGCTTCCT 127532

Search completed: May 17, 2002, 11:55:34  
Job time: 75409 sec



Run on:	May 16, 2002, 14:43:43 ;	Search time 539.13 Seconds (without alignments)	23
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Searched:	1736436 seqs,	85845721 residues	
Total number of hits satisfying chosen parameters:	3472872		
Minimum DB seq length:	0		
Maximum DB seq length:	200000000		
Post-processing:	Listing first 45 summaries		
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SUMMARIES			
Result No.	Score	Query Match Length DB ID	Description
1	1577	56.9 2614 23 AAST4823	DNA encoding novel Human breast cancer
2	20.6	678 22 AAF4909	
3	571		
4	525	18.9 653 23 AAS8256	DNA encoding novel Human cDNA encoding
5	231	8.3 983 22 AAS2628	Human polynucleotide
6	69	3.6 394 22 AAS13890	DNA encoding Zinc
7	69	2.5 69 22 AAS13031	DNA encoding Zinc
8	69	2.5 69 22 AAS13088	DNA encoding Zinc
9	49	1.8 821 23 AAS8257	DNA encoding novel Human colon cancer
10	29		
11	29		
12	29		
13	28		
14	27		
15	27		
16	27	1.0 3099 20 AAV4361	DNA encoding novel Human polynucleotid
17	25	0.9 51 23 ABL0474	Human reproductive
18	25	0.9 51 23 ABU0878	Human cDNA encodin
19	25	0.9 763 22 AAK2290	Human genomic DNA
20	25	0.9 814 22 AAK3811	Human stem cell 2L
21	25	0.9 871 22 ABA08823	Human silent nonco
22	25	0.9 2200 22 AAK4575	Human amino acid C
23	23	0.8 688 22 AAK3129	Human CDNA 5'-end
24	23	0.8 1512 22 ABA0438	Human neuroblastoma
25	23	0.8 1512 22 ABA3388	Human full-length
26	23	0.8 1512 22 AAK6761	Human brain express
27	23	0.8 1512 22 AAK2537	Human bone marrow
28	23	0.8 1512 22 AAI3284	Human breast cell
29	23	0.8 1512 22 AAI8604	Human foetal liver
30	23	0.8 1512 22 AAI8925	Probe #1384 for g
31	23	0.8 1512 22 AAK4015	Probe #13217 for g
32	23	0.8 1512 22 AAK9501	Probe #17290 used t
33	23	0.8 1623 22 AAK4635	Human full-length
34	23	0.8 1623 22 ABA5305	Human breast cell
35	23	0.8 1623 22 ABA5794	Human foetal liver
36	23	0.8 1965 22 ABA25474	Probe #3940 for ge
37	23	0.8 1965 22 AAK4015	Human brain express
38	23	0.8 1965 22 AAK9501	Human bone marrow
39	23	0.8 1965 22 AAI4072	Probe #4005 for ge
40	23	0.8 1965 22 AAI5452	Probe #1318 used t
41	23	0.8 1965 22 AA10325	Probe #916 used t
42	23	0.8 1965 22 AAS1041	DNA encoding novel
43	23	0.8 2634 23 AAS1041	Novel human poly
44	22	0.8 439 22 AAF7397	Human lung tumour
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AC	AAS74823;		
DT	13-FEB-2002	(first entry)	
XX			
DE		DNA encoding novel human diagnostic protein #10627.	
KW		Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.	
OS		Homo sapiens.	
XX			
PN	WO200175067-A2.		
XX			
PD	11-OCT-2001.		
XX			
PF	30-MAR-2001; 2001WO-US08631.		
XX			
PR	31-MAR-2000; 2000US-0544217.		
XX			
PR	23-AUG-2000; 2000US-0649167.		
XX			
PA	(HYSE-1) HYSEQ INC.		
XX			
PI	Dramanac RT, Liu C, Tang YT;		
XX			
DR	WPI; 2001-639362/73.		
DR	P-PSDB; ABG10636.		
PT	New isolated polynucleotide and encoded polypeptides, useful in		





KW	Human; cytostatic; immunosuppressive; anti-neuroprotective; antibiotic; vulnerary; secreted protein
KW	hyperproliferative disorder
KW	cerbrovascular disorder; nervous system disorder; AI
KW	corneal infection; wound healing; skin ageing; food additive;
OS	Homo sapiens.
XX	PR WO200155322-A2.
XX	PD 02-AUG-2001.
XX	PF 17-JAN-2001; 2001WO-US01341
XX	PR 31-JAN-2000; 2000US-0179065
PR	04-FEB-2000; 2000US-0180628
PR	24-FEB-2000; 2000US-0184664
PR	02-MAR-2000; 2000US-0188350
PR	16-MAR-2000; 2000US-0189874
PR	17-MAR-2000; 2000US-0190076
PR	18-APR-2000; 2000US-0198123
PR	19-MAY-2000; 2000US-0205515
PR	28-JUN-2000; 2000US-0209467
PR	30-JUN-2000; 2000US-0214886
PR	07-JUL-2000; 2000US-0215135
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PR	14-AUG-2000; 2000US-0225750
PR	14-AUG-2000; 2000US-0225759
PR	18-AUG-2000; 2000US-0226279
PR	22-AUG-2000; 2000US-0226681
PR	22-AUG-2000; 2000US-0226886
PR	22-AUG-2000; 2000US-0227182
PR	23-AUG-2000; 2000US-0227009
PR	30-AUG-2000; 2000US-0228924
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PR	01-SEP-2000; 2000US-0229433
PR	01-SEP-2000; 2000US-0229344
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PR 14-SEP-2000; 20000US-0232401.  
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 PR 14-SEP-2000; 20000US-0233064.  
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 PR 08-NOV-2000; 20000US-0246523.  
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 PR 17-NOV-2000; 20000US-0249307.  
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 PR 05-DEC-2000; 20000US-0256719.  
 PR 06-DEC-2000; 20000US-0251479.  
 PR 08-DEC-2000; 20000US-0251856.  
 PR 08-DEC-2000; 20000US-0251868.  
 PR 08-DEC-2000; 20000US-0251869.  
 PR 08-DEC-2000; 20000US-0251989.  
 PR 11-DEC-2000; 20000US-0251990.  
 PR 05-JAN-2001; 2001US-0259678.  
 XX PA (HUMA-) HUMAN GENOME SCI INC.  
 XX PI Rosen CA, Barash SC, Ruben SM;  
 XX DR WPI; 2001-488783/53.  
 XX PS DR-PSDB; AAU16299.  
 XX PT New nucleic acid molecules encoding 461 human secreted proteins for diagnosing, preventing, treating or ameliorating medical conditions and used as food additives or preservatives -  
 XX PS claim 1; SEQ ID No 465; 980pp; English.  
 CC The invention relates to isolated nucleic acid molecules and their encoded secreted proteins. The nucleic acids and proteins are used to prevent, treat or ameliorate a medical condition or susceptibility are also used in diagnosing a pathological condition or susceptibility to a pathological condition. Antibodies to the proteins can also be used in alleviating symptoms associated with the disorders and in diagnostic immunoassays e.g. radiolimmunoassays or enzyme linked immunosorbent assays (ELISA). Disorders which are diagnosed or treated include autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. neoplasms of the breast or liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection, and many other disorders listed in the specification. The polypeptides can also be used to aid wound healing and epithelial cell proliferation, to prevent skin aging due to sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, cofactors and other nutritional components. The present sequence encodes a novel secreted protein of the invention.  
 CC Query Match 8.3%; Score 231; DB 22; Length 983;  
 CC Best Local Similarity 99.6%; Pred. No. 24e-103;  
 CC Matches 281; Conserv. 0; Mismatches 1; Indels 0; Gaps 0  
 QY 287 gcaacaggaggatgtctggagacttataaccatctggctcactcgaaattccatcttc 346  
 Db 570 gcaacaggaggatgtctggagacttataaccatctggctcactcgaaattccatcttc 629  
 QY 347 taaacccaaaactcatgtctcgctggagcgccctggagagggaaaa 406  
 Db 630 taaacccaaaactcatgtctcgctggagcgccctggagagggaaaa 689  
 QY 407 atgcctactgacctctgtccagaatcgaaaggccagaatcaacttgtccctccgccc 466  
 Db 690 atgcctactgacctctgtccagaatcgaaaggccagaatcaacttgtccctccgccc 749  
 QY 467 tcgtatttctccatcgcaacatgttggtctgttgtctctctca 526  
 Db 750 tcgtatttctccatcgcaacatgttggtctgttgtctctca 809  
 QY 527 gctgtttcaagtttagggcggaaatccctccctccctggg 568  
 Db 810 gctgtttcaagtttagggcggaaatccctccctccctggg 851  
 RESULT 5

**AAT183890**  
**AAT183890 standard; cDNA; 394 BP.**  
**XX**  
**AC**  
**AA183890;**  
**XX**  
**DT 06 NOV 2001 (first entry)**  
**XX**  
**DE Human polynucleotide SEQ ID NO 3950.**  
**XX**  
**KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;**  
**KW vaccine; peptide therapy; stem cell growth factor; haemopoiesis;**  
**KW tissue growth factor; immunomodulatory; cancer; leukaemia;**  
**KW nervous system disorders; arthritis; inflammation; ss.**  
**XX**  
**OS Homo sapiens.**  
**XX**  
**PN WO20016835-A2.**  
**XX**  
**PD 07-SEP-2001.**  
**XX**  
**PF 26-FEB-2001; 2001WO-US04927.**  
**XX**  
**PR: 28-FEB-2000; 2000US-0515125.**  
**PR: 18-MAY-2000; 2000US-0577409.**  
**XX**  
**(HYSEQ-) HYSEQ INC.**  
**XX**  
**PA Tang YT, Liu C, Drmanac RT;**  
**XX**  
**DR DR P-PSDB; AAU088514.**  
**XX**  
**WPI; 2001-554838/56.**  
**XX**  
**PT Isolated nucleic acids and polypeptides, useful for preventing**  
**PT diagnosing and treating e.g. leukaemia, inflammation and immune**  
**PT disorders.**  
**XX**  
**PS Claim 1; SEQ ID NO 3950; 1399pp + Sequence Listing; English.**  
**XX**  
**The invention relates to human polynucleotides (AAT179941-AA193841) and**  
**CC the encoded proteins (AA000101-AA01310) that exhibit activity relating to**  
**CC cytokine, cell proliferation or cell differentiation or which may induce**  
**CC production of other cytokines in other cell populations. The**  
**CC polynucleotides and polypeptides are useful in gene therapy, vaccines or**  
**CC peptide therapy. The polypeptides have various cytokine-like activities,**  
**CC e.g. stem cell growth factor activity, haemopoiesis regulating**  
**CC activity, tissue growth factor activity, immunomodulatory activity and**  
**CC activity/inhibitory activity and may be useful in the diagnosis and/or**  
**CC treatment of cancer, leukaemia, nervous system disorders, arthritis and**  
**CC inflammation.**  
**CC Note: The sequence data for this patent did not form part of the printed**  
**CC specification, but was obtained in electronic format directly from WIPO**  
**CC at ftp.wipo.int/pub/published\_pct\_sequences.**  
**XX**  
**SQ Sequence 394 BP; 148 A; 75 C; 93 G; 78 T; 0 other;**  
**Query Match 3.5%; Score 99; DB 22; Length 394;**  
**Best Local Similarity 99.3%; Pred. No. 2.6e-38; Matches 149; Conservative 0; Mismatches 1; Indels 0; Gaps 0;**  
**DB 1 ttcccttatttcgagccatcaaagccataactcgatgtggatagaatcacc 2678**  
**Oy 2619 ttcccttatttcgagccatcaaagccataactcgatgtggatagaatcacc 2678**  
**Db 1 ttcccttatttcgagccatcaaagccataactcgatgtggatagaatcacc 60**  
**Oy 2679 ctgcgttgagggtggggacactccgtcgatccctctccactcgatgtggatagaatcacc 2738**  
**Db 61 ctgcgttgagggtggggacactccgtcgatccctctccactcgatgtggatagaatcacc 120**  
**Oy 2739 ctcataaaatctttctaacatctca 2768**  
**Db 121 ctcataaaatctttctaacatctca 150**  
**XX**  
**Sequence 69 BP; 17 A; 16 C; 20 G; 16 T; 0 other;**  
**Query Match 2.5%; Score 69; DB 22; Length 69;**  
**Best Local Similarity 10.0%; Pred. No. 1.6e-23; Matches 69; Conservative 0; Mismatches 0; Indels 0; Gaps 0;**  
**Oy 1269 tatgtttcgaggaaatgtggggctgtggatccacactgtcgatgtggatagaatcacc 1328**  
**Db 1 tatgtttcgaggaaatgtggggctgtggatccacactgtcgatgtggatagaatcacc 60**  
**Oy 1329 aggacat 1337**  
**Db 61 aggacat 69**

**RESULT 7**

AAS13088  
ID AAS13088 standard; DNA; 69 BP.  
XX  
AC AAS13088;  
XX  
DT 17-DEC-2001 (first entry)  
XX  
DNA encoding zinc finger domain TG-ZFD-046.  
XX  
zinc finger domain; cancer; human; ds.  
KW  
OS Homo sapiens.  
XX  
PN WO200160970-A2.  
XX  
PD 23-AUG-2001.  
XX  
PR 17-FEB-2001; 2001WO-KR00244.  
XX  
PR 18-FEB-2000; 2000KR-0007730.  
XX  
PA (TOOL-) TOOLGEN INC.  
XX  
PL Kim J., Kwon Y., Kim H., Ryu EH., Hwang MS;  
XX  
WPI; 2001-557644/62.  
DR P-PSDB; AAU08558.

**XX**

Identifying a zinc finger domain for e.g. designing new polypeptides that bind to a specific site on a DNA, comprises expressing hybrid nucleic acids with a test zinc finger domain in cells - Example 54; Page 69; 147pp; English.

**CC**

The invention relates to a method of identifying a zinc finger domain that recognises a target site on a DNA. The method comprises expressing hybrid nucleic acids with a test zinc finger domain in cells containing a reporter construct, where the reporter gene is expressed above a given level when a transcription factor recognises a recruitment and a target site of a promoter, and not only the recruitment site of the promoter. The method is used to: (a) identify a zinc finger domain that recognises a target site on a DNA; (b) determine whether a test zinc finger domain recognises a target site on a promoter; (c) generate a nucleic acid that encodes a chimeric zinc finger protein; and (d) identify DNA sequences recognised by zinc finger domains. The method can be used to design novel polypeptides that bind to a specific site on a DNA. The method can facilitate the customised generation of new polypeptides that can regulate the expression a selected target e.g. a gene required by a pathogen can be repressed, a gene required for cancerous growth can be suppressed, or a gene poorly expressed or encoding a mutated protein can be activated and overexpressed. The method can be used *in vivo* which enables identification of polypeptides that bind to a specific site on a DNA in the intracellular milieu. The present sequence represents the coding sequence of TG-ZFD-046 zinc finger protein which was used in the method of the invention.

**CC**

Sequence 69 BP; 21 A; 14 C; 18 G; 16 T; 0 other;

**Query Match 2.5%; Score 69; DB 22; Length 69;**  
**Best Local Similarity 100.0%; Pred. No. 1.6e-23; Mismatches 69; Conservative 0; Indels 0; Gaps 0;**  
**Matches 69;**

**QY 2019 tatatttgccggaaagtgtgacggggtttagtcggaaacttataagacatcg 2078**  
**Db 1 tatatttgccggaaagtgtgacggggtttagtcggaaacttataagacatcg 60**

**QY 2079 aggacacac 2087**  
**Db 61 aggacacac 69**

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**RESULT 8**

AAS68257  
ID AAS68257 standard; cDNA; 821 BP.  
XX  
AC AAS68257;  
XX  
DT 13-FEB-2002 (first entry)  
XX  
DE DNA encoding novel human diagnostic protein #4061.  
XX  
KW Human; chromosome mapping; gene mapping; gene therapy; forensic; food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200175067-A2.  
XX  
PD 11-OCT-2001.  
XX  
PF 30-MAR-2001; 2001WO-US08631.  
XX  
PR 31-MAR-2000; 2000US-0540217.  
PR 23-AUG-2000; 2000US-0649167.  
XX  
PA (HYSE-) HYSEQ INC.  
XX  
PT DR P-PSDB; ABG04070.  
XX  
WPI; 2001-639362/73.  
DR P-PSDB; ABG04070.  
XX  
PT New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity -  
PT

**XX**

PS Claim 1; SEQ ID No 4061; 103pp; English.

**CC**

The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, Oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94564 represent novel human diagnostic coding sequences of the invention. Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences).

**SQ Sequence 821 BP; 174 A; 234 C; 215 G; 198 T; 0 other;**  
**Query Match 1.8%; Score 49; DB 23; Length 821;**  
**Best Local Similarity 100.0%; Pred. No. 1.1e-13; Mismatches 49; Conservative 0; Indels 0; Gaps 0;**  
**Matches 49;**

**QY 722 accacacacccacacgtccatagaagacaacacagtggtgatatacg 770**  
**Db 188 accaacacccacacgtccatagaagacaacacagtggtgatatacg 236**

ID	AAH33832	Standard; cDNA; 800 BP.	DT	13-FEB-2002 (first entry)
XX			DE	DNA encoding novel human diagnostic protein #26233.
XX			XX	
XX			KW	Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX			KW	food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX			XX	
DE	Human colon cancer antigen encoding cDNA SEQ ID NO:888.		OS	Homo sapiens.
XX			XX	
XX			PN	WO200122920-A2.
XX			PN	
PD	05-APR-2001.		XX	
XX			PD	11-OCT-2001.
PF	28-SEP-2000; 2000WO-US26524.		XX	
XX			PF	30-MAR-2001; 2001WO-US08631.
XX			XX	
PR	29-SEP-1999; 99US-0157137.		PR	31-MAR-2000; 2000US-0540217.
XX	03-NOV-1999; 99US-016280.		PR	23-AUG-2000; 2000US-0649167.
XX			XX	
PA	(HUWA-) HUMAN GENOME SCI INC.		PA	(HYSE-) HYSEQ INC.
XX			XX	
PT	Ruben SM, Barash SC, Birse CB, Rosen CA;		PT	Drmanac RT, Liu C, Tang YT;
XX	DR:		XX	WPI; 2001-639362/73.
DR	WPI; 2001-235557/24.		DR	DR-P-PSDB; ABG2242.
XX			XX	
PT	Nucleic acids encoding 4277 human colon cancer-associated polypeptides, useful for preventing, diagnosing and/or treating colorectal cancers -		PT	New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity -
XX			PT	
PS	Claim 1; Page 2813-2814; 9803PP; English.		PS	Claim 1; SEQ ID No 26233; 103PP; English.
XX			XX	
CC	AAH32943 to AAH37195 and AAG73514 to AAG77788 represent human colon cancer-associated nucleic acid molecules (N) and proteins (P), where the proteins are collectively known as colon cancer antigens. The colon cancer antigens have cytotoxic activity and can be used in gene therapy and vaccine production. N and P may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate P expression. For example, N and P may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of P by expressing inactive proteins or to supplement the patient's own production of P. Additionally, N may be used to produce the colon cancer-associated PS, by inserting the nucleic acids into a host cell and culturing the cell, to express the proteins. N and P can be used in the prevention, diagnosis and treatment of colorectal carcinomas and cancers. AAH37196 to AAB77789 represent sequences used in the exemplification of the present invention.		CC	The invention relates to isolated polynucleotide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCR) primers, oligomers, and for chromosome and gene mapping, and in recombinant production of (II). The polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal activity of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences. AAS64197-AAS94561 represent novel human diagnostic coding sequences of the invention.
CC	N.B. Pages 665 to 682 and page 7053 of the sequence listing were missing at time of publication, meaning no sequences are present for SEQ ID NO:1027 to 1052, 7921 and 7922.		CC	Note: The sequence data for this patent did not appear in the printed specification, but was obtained in electronic format directly from WIPO at <a href="http://wipo.int/pub/published_pct_sequences">ftp://wipo.int/pub/published_pct_sequences</a> .
XX	Sequence 800 BP; 240 A; 173 C; 219 G; 166 T; 2 other;		XX	
SQ	Query Match 1.0%; Score 29; DB 22; Length 800; Best Local Similarity 100.0%; Pred. No. 0.00079; Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		SQ	Sequence 2349 BP; 664 A; 547 C; 608 G; 530 T; 0 other;
QY	1659 caccagaggacacactcaaggagaagcc 1687		QY	1659 caccagaggacacactcaaggagaagcc 1687
Db	413 caccaggagcacacactcagggagaagcc 441		Db	1645 caccaggagcacacactcagggagaagcc 1673
RESULT	1 0		RESULT	11
AA590429	ID AA590429 standard; cDNA; 2349 BP.		AA158664	
ID			ID	
XX			XX	
AA590429;			AC	AA158664;
AC			XX	
XX			DT	22-OCT-2001 (first entry)

XX  
DE Human polynucleotide SEQ ID NO 867.  
XX  
KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;  
peripheral nervous system; neuropathy; central nervous system; CNS;  
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;  
amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;  
chemokinetic; thrombolytic; drug screening; arthritis; inflammation;  
leukaemia; ss.  
OS Homo sapiens.  
XX  
PN WO200153312-A1.  
XX  
PD 26-JUL-2001.  
XX  
PF 26-DEC-2000; 2000WO-US34263.  
XX  
PR 21-JAN-2000; 2000US-0488725.  
PR 25-APR-2000; 2000US-0552317.  
PR 09-JUL-2000; 2000US-0598042.  
PR 19-JUL-2000; 2000US-0620312.  
PR 03-AUG-2000; 2000US-0654550.  
PR 14-SEP-2000; 2000US-0662191.  
PR 19-OCT-2000; 2000US-0693036.  
PR 29-NOV-2000; 2000US-072734.  
XX  
PA (HYSE-) HYSEQ INC.  
XX  
PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;  
Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;  
Xiao Q, Zhou P, Goodrich R, Drmanac RT;  
DR WPI; 2001-442253/47.  
XX  
PT Novel nucleic acids and polypeptides, useful for treating disorders  
such as central nervous system injuries -  
XX  
PS Claim 1; SEQ ID NO 867; 10078pp; English.  
XX  
CC The invention relates to human nucleic acids (AAI57798-AAI61369) and  
the encoded polypeptides (AAI38642-AAM42213), with nootropic,  
immunosuppressant and cytostatic activity. The polynucleotides are useful  
in gene therapy. A composition containing a polypeptide or polynucleotide  
of the invention may be used to treat diseases of the peripheral nervous  
system, such as peripheral nervous injuries, peripheral neuropathy and  
localised neuropathies and central nervous system diseases, such as  
Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic  
lateral sclerosis, and Shy-Drager Syndrome. Other uses include the  
utilisation of the activities such as: immune system suppression,  
Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic  
and thrombolytic activity, cancer diagnosis and therapy, drug screening,  
assays for receptor activity, arthritis and inflammation, leukaemias and  
C.N.S disorders.  
Note: The sequence data for this patent did not form part of the printed  
specification.  
XX  
Sequence 3582 BP; 1024 A; 826 C; 910 G; 821 T; 1 other;

Query Match 1.0%; Score 29; DB 22; Length 3582;  
Best Local Similarity 100.0%; Pred. No. 0.00078; Mismatches 0;  
Matches 29; Conservative 0; Indels 0; Gaps 0;

Qy 1659 cacccaggagcacactcaggagaagcc 1687  
Db 1487 cacccaggagcacactcaggagaagcc 1515

XX  
AC AAI60450;  
XX  
DT 22-OCT-2001 (first entry)  
XX  
DE Human polynucleotide SEQ ID NO 4439.  
XX  
KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;  
peripheral nervous system; neuropathy; central nervous system; CNS;  
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;  
amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;  
chemokinetic; thrombolytic; drug screening; arthritis; inflammation;  
leukaemia; ss.  
OS Homo sapiens.  
XX  
PN WO200153312-A1.  
XX  
PD 26-JUL-2001.  
XX  
PF 26-DEC-2000; 2000WO-US34263.  
XX  
PR 21-JAN-2000; 2000US-0488725.  
PR 25-APR-2000; 2000US-0552317.  
PR 09-JUL-2000; 2000US-0598042.  
PR 19-JUL-2000; 2000US-0620312.  
PR 03-AUG-2000; 2000US-0653450.  
PR 14-SEP-2000; 2000US-0662191.  
PR 19-OCT-2000; 2000US-0693036.  
PR 29-NOV-2000; 2000US-072734.  
XX  
PA (HYSE-) HYSEQ INC.  
XX  
PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;  
Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;  
Xiao Q, Zhou P, Goodrich R, Drmanac RT;  
DR WPI; 2001-442253/47.  
XX  
PT Novel nucleic acids and polypeptides, useful for treating disorders  
such as central nervous system injuries -  
XX  
PS Claim 1; SEQ ID NO 4439; 10078pp; English.  
XX  
CC The invention relates to human nucleic acids (AAI57798-AAI61369) and  
the encoded polypeptides (AAI38642-AAM42213) with nootropic,  
immunosuppressant and cytostatic activity. The polynucleotides are useful  
in gene therapy. A composition containing a polypeptide or polynucleotide  
of the invention may be used to treat diseases of the peripheral nervous  
system, such as peripheral nervous injuries, peripheral neuropathy and  
localised neuropathies and central nervous system diseases, such as  
Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic  
lateral sclerosis, and Shy-Drager Syndrome. Other uses include the  
utilisation of the activities such as: immune system suppression,  
Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic  
and thrombolytic activity, cancer diagnosis and therapy, drug screening,  
assays for receptor activity, arthritis and inflammation, leukaemias and  
C.N.S disorders.  
Note: The sequence data for this patent did not form part of the printed  
specification.  
XX  
Sequence 3582 BP; 821 A; 908 C; 826 G; 1026 T; 1 other;

Query Match 1.0%; Score 29; DB 22; Length 3582;  
Best Local Similarity 100.0%; Pred. No. 0.00078; Mismatches 0;  
Matches 29; Conservative 0; Indels 0; Gaps 0;

Qy 1659 cacccaggagcacactcaggagaagcc 1687  
Db 2096 CACCAAGGACACACTCAGGAGAACCC 2068

RESULT 12  
ID AA160450/c  
AA160450 standard; cDNA; 3582 BP.

RESULT 13  
 AAL00216  
 ID AAL00216 standard; cDNA; 159 BP.  
 XX  
 AC AAL00216;  
 XX  
 DT 21-NOV-2001 (first entry)  
 XX  
 DE Human reproductive system related antigen cDNA SEQ ID NO: 217.  
 KW Human; reproductive system related antigen; reproductive system disorder; cancer; gene therapy; ss.  
 XX OS Homo sapiens.  
 XX PN W0200155320-A2.  
 XX PD 02-AUG-2001.  
 XX PR 12-SEP-2000; 2000US-0231968.  
 PR 14-SEP-2000; 2000US-0232397.  
 PR 14-SEP-2000; 2000US-0232398.  
 PR 14-SEP-2000; 2000US-0232399.  
 PR 14-SEP-2000; 2000US-0232400.  
 PR 14-SEP-2000; 2000US-0232401.  
 PR 14-SEP-2000; 2000US-0233063.  
 PR 14-SEP-2000; 2000US-0233064.  
 PR 14-SEP-2000; 2000US-0233065.  
 PR 14-SEP-2000; 2000US-0233065.  
 PR 21-SEP-2000; 2000US-0234223.  
 PR 21-SEP-2000; 2000US-0234274.  
 PR 25-SEP-2000; 2000US-0234997.  
 PR 25-SEP-2000; 2000US-0234998.  
 PR 26-SEP-2000; 2000US-0235484.  
 PR 27-SEP-2000; 2000US-0235836.  
 PR 29-SEP-2000; 2000US-0236327.  
 PR 29-SEP-2000; 2000US-0236367.  
 PR 29-SEP-2000; 2000US-0236368.  
 PR 29-SEP-2000; 2000US-0236369.  
 PR 29-SEP-2000; 2000US-0236370.  
 PR 02-OCT-2000; 2000US-0236802.  
 PR 02-OCT-2000; 2000US-0237038.  
 PR 02-OCT-2000; 2000US-0237039.  
 PR 02-OCT-2000; 2000US-0237040.  
 PR 13-OCT-2000; 2000US-0239935.  
 PR 13-OCT-2000; 2000US-0239937.  
 PR 20-OCT-2000; 2000US-0240950.  
 PR 20-OCT-2000; 2000US-0240950.  
 PR 20-OCT-2000; 2000US-0241221.  
 PR 20-OCT-2000; 2000US-0241785.  
 PR 20-OCT-2000; 2000US-0241786.  
 PR 20-OCT-2000; 2000US-0241787.  
 PR 20-OCT-2000; 2000US-0241809.  
 PR 20-OCT-2000; 2000US-0241826.  
 PR 01-NOV-2000; 2000US-0244617.  
 PR 08-NOV-2000; 2000US-02446474.  
 PR 08-NOV-2000; 2000US-02446475.  
 PR 08-NOV-2000; 2000US-02446476.  
 PR 08-NOV-2000; 2000US-02446477.  
 PR 08-NOV-2000; 2000US-02446478.  
 PR 08-NOV-2000; 2000US-02446523.  
 PR 08-NOV-2000; 2000US-02446524.  
 PR 08-NOV-2000; 2000US-02446525.  
 PR 08-NOV-2000; 2000US-02446526.  
 PR 08-NOV-2000; 2000US-02446527.  
 PR 08-NOV-2000; 2000US-02446528.  
 PR 08-NOV-2000; 2000US-02446532.  
 PR 08-NOV-2000; 2000US-02446609.  
 PR 08-NOV-2000; 2000US-0246610.  
 PR 08-NOV-2000; 2000US-0246611.  
 PR 08-NOV-2000; 2000US-0246613.  
 PR 08-NOV-2000; 2000US-0246528.  
 PR 17-NOV-2000; 2000US-0249207.  
 PR 17-NOV-2000; 2000US-0249208.  
 PR 17-NOV-2000; 2000US-0249210.  
 PR 17-NOV-2000; 2000US-0249211.  
 PR 17-NOV-2000; 2000US-0249212.  
 PR 17-NOV-2000; 2000US-0249213.  
 PR 17-NOV-2000; 2000US-0249214.  
 PR 17-NOV-2000; 2000US-0249215.  
 PR 17-NOV-2000; 2000US-0249216.  
 PR 17-NOV-2000; 2000US-0249217.  
 PR 17-NOV-2000; 2000US-0249218.  
 PR 17-NOV-2000; 2000US-0249219.  
 PR 17-NOV-2000; 2000US-0249220.  
 PR 01-SEP-2000; 2000US-0229343.  
 PR 01-SEP-2000; 2000US-0229344.  
 PR 01-SEP-2000; 2000US-0229345.  
 PR 05-SEP-2000; 2000US-0229509.  
 PR 30-AUG-2000; 2000US-0228927.  
 PR 01-SEP-2000; 2000US-0229533.  
 PR 06-SEP-2000; 2000US-0230437.  
 PR 01-SEP-2000; 2000US-0230438.  
 PR 08-SEP-2000; 2000US-0231422.  
 PR 08-SEP-2000; 2000US-0231423.  
 PR 08-SEP-2000; 2000US-0231424.  
 PR 08-SEP-2000; 2000US-0231413.  
 PR 08-SEP-2000; 2000US-0231414.  
 PR 08-SEP-2000; 2000US-0232080.  
 PR 08-SEP-2000; 2000US-0232081.

PR 01-DEC-2000; 2000US-0250391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 06-DEC-2000; 2000US-0256719.  
 PR 08-DEC-2000; 2000US-0251479.  
 PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 03-JAN-2001; 2000US-0259678.  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 PA Rosen CA, Barash SC, Ruben SM;  
 XX DR P-PSDB; AAM9246.  
 XX PT Isolated nucleic acid molecule encoding a reproductive system antigen is used in preventing, treating or ameliorating a medical condition -  
 XX PS Claim 1; SEQ ID NO 217; 1297pp + Sequence Listing; English.  
 XX The present invention provides the protein and coding sequences of a number of human reproductive system related antigens. These can be used in the prevention and treatment of reproductive system disorders, including cancer. The present sequence is a coding sequence of the CC invention.  
 XX Sequence 159 BP; 47 A; 33 C; 47 G; 30 T; 2 other;  
 SQ Query Match 1.0%; Score 28; DB 22; Length 159;  
 Best Local Similarity 1.00%; Pred. NO. 0.0025;  
 Matches 28; conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Oy 1659 caccagaggacactcagggagaagg 1686  
 Db 18 caccagaggacactcagggagaagg 45  
 AC RESULT 14  
 AA AAS25949  
 ID AAS25949 standard; cDNA; 1183 BP.  
 XX AAS25949;  
 XX DT 07-NOV-2001 (first entry)  
 XX DE Human cDNA encoding a novel secreted protein, Seq ID 128.  
 KW Human; immunosuppressive; antiarthritic; ss; antirheumatic;  
 KW cyrostatic; cardiant; vasotropic; cerebroprotective; nootropic;  
 KW neuroprotective; antibacterial; viricide; fungicidal; ophthalmological;  
 KW vulnerary; secreted protein; rheumatoïd arthritis;  
 KW hyperproliferative disorder; cardiovascular disorder; cardiac arrest;  
 KW cerebrovascular disorder; cerebral ischaemia; angiogenesis;  
 KW nervous system disorder; Alzheimer's disease; infection; ocular disorder;  
 KW corneal infection; wound healing; epithelial cell proliferation;  
 KW skin ageing; food additive; preservative; antiproliferative.  
 OS Homo sapiens.  
 XX PN WO20015322-A2.  
 PD 02-AUG-2001.  
 XX PF 17-JAN-2001; 2001WO-US01341.  
 XX PR 31-JAN-2000; 2000US-017905.  
 PR 04-FEB-2000; 2000US-0180628.  
 PR 24-FEB-2000; 2000US-014664.  
 PR 02-MAR-2000; 2000US-016350.  
 PR 16-MAR-2000; 2000US-019874.  
 PR 17-MAR-2000; 2000US-019076.  
 PR 18-APR-2000; 2000US-018123.  
 PR 19-MAY-2000; 2000US-020515.  
 PR 07-JUN-2000; 2000US-0209467.  
 PR 28-JUN-2000; 2000US-0214886.  
 PR 30-JUN-2000; 2000US-0215135.  
 PR 07-JUL-2000; 2000US-0216647.  
 PR 07-JUL-2000; 2000US-0216880.  
 PR 11-JUL-2000; 2000US-0217487.  
 PR 11-JUL-2000; 2000US-0217496.  
 PR 14-AUG-2000; 2000US-0218290.  
 PR 26-JUL-2000; 2000US-0220963.  
 PR 14-AUG-2000; 2000US-0220964.  
 PR 14-AUG-2000; 2000US-0224518.  
 PR 14-AUG-2000; 2000US-0224519.  
 PR 14-AUG-2000; 2000US-0225213.  
 PR 14-AUG-2000; 2000US-0225214.  
 PR 14-AUG-2000; 2000US-0225266.  
 PR 14-AUG-2000; 2000US-0225268.  
 PR 14-AUG-2000; 2000US-0225270.  
 PR 14-AUG-2000; 2000US-0225447.  
 PR 14-AUG-2000; 2000US-0225757.  
 PR 14-AUG-2000; 2000US-0225758.  
 PR 14-AUG-2000; 2000US-0225759.  
 PR 18-AUG-2000; 2000US-0226279.  
 PR 22-AUG-2000; 2000US-0226681.  
 PR 22-AUG-2000; 2000US-0226868.  
 PR 22-AUG-2000; 2000US-0227182.  
 PR 23-AUG-2000; 2000US-0227009.  
 PR 30-AUG-2000; 2000US-0228924.  
 PR 01-SEP-2000; 2000US-0229343.  
 PR 01-SEP-2000; 2000US-0229344.  
 PR 01-SEP-2000; 2000US-0229345.  
 PR 05-SEP-2000; 2000US-0229509.  
 PR 05-SEP-2000; 2000US-0229513.  
 PR 06-SEP-2000; 2000US-0230437.  
 PR 06-SEP-2000; 2000US-0230438.  
 PR 08-SEP-2000; 2000US-0231242.  
 PR 08-SEP-2000; 2000US-0231243.  
 PR 08-SEP-2000; 2000US-0231244.  
 PR 08-SEP-2000; 2000US-0231413.  
 PR 08-SEP-2000; 2000US-0231414.  
 PR 08-SEP-2000; 2000US-0233080.  
 PR 08-SEP-2000; 2000US-0233181.  
 PR 12-SEP-2000; 2000US-0231968.  
 PR 14-SEP-2000; 2000US-0223397.  
 PR 14-SEP-2000; 2000US-0223398.  
 PR 14-SEP-2000; 2000US-0223399.  
 PR 14-SEP-2000; 2000US-022400.  
 PR 14-SEP-2000; 2000US-022401.  
 PR 14-SEP-2000; 2000US-0233063.  
 PR 14-SEP-2000; 2000US-0233064.  
 PR 14-SEP-2000; 2000US-0233065.  
 PR 21-SEP-2000; 2000US-0234223.  
 PR 21-SEP-2000; 2000US-0234274.  
 PR 25-SEP-2000; 2000US-0234997.  
 PR 25-SEP-2000; 2000US-0234998.  
 PR 26-SEP-2000; 2000US-0235484.  
 PR 27-SEP-2000; 2000US-0235834.  
 PR 27-SEP-2000; 2000US-0235836.  
 PR 27-SEP-2000; 2000US-0236327.  
 PR 29-SEP-2000; 2000US-0236367.  
 PR 29-SEP-2000; 2000US-0236368.  
 PR 29-SEP-2000; 2000US-0236369.  
 PR 29-SEP-2000; 2000US-0236370.  
 PR 02-OCT-2000; 2000US-0236802.  
 PR 02-OCT-2000; 2000US-0237037.

PS	Claim 1; SEQ ID NO 128; 980pp; English.
XX	The invention relates to isolated nucleic acid molecules and their encoded secreted proteins. The nucleic acids and proteins are used to prevent, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. They are also used in diagnosing a pathological condition or susceptibility to a pathological condition. Antibodies to the proteins can also be used in alleviating symptoms associated with the disorders and in diagnostic immunoassays e.g. radioimmunoassays or enzyme linked immunosorbant assays (ELISA). Disorders which are diagnosed or treated include autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. neoplasms of the breast or liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection, and many other disorders listed in the specification. The polypeptides can also be used to aid wound healing and epithelial cell proliferation, to prevent skin aging due to sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities, fat content, lipid, protein, carbohydrate, vitamins, minerals, cofactors and other nutritional components. The present sequence encodes a novel secreted protein of the invention.
Query	Query Match 1.0%; Score 27; Best Local Similarity 100.0%; Pred. No. 0.0077; Length 1183; Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db	2149 tcctccatggacaccggacacacag 2175 961 tcatacgacacccaggacacacag 987
RESULT 15	
PR	AAS26635
PR	ID AAS26635 standard; DNA; 2717 BP.
PR	XX
PR	AC AAS26635;
PR	XX
PR	DT 07-NOV-2001 (first entry)
PR	XX
PR	DE Human genomic DNA encoding partial novel secreted protein, Seq ID 1609.
PR	XX
PR	KW Human; immunosuppressive; antiarthritic; ds; antirheumatic;
PR	KW cytosstatic; cardiotropic; vasotropic; cerebroprotective; nootropic;
PR	KW neuroprotective; antibacterial; virucide; fungicide; ophthalmological;
PR	KW vulnery; secreted protein; rheumatoid arthritis;
PR	KW hyperproliferative disorder; cardiovascular disorder; cardiac arrest;
PR	KW cerebrovascular disorder; cerebral ischaemia; angiogenesis;
PR	KW nervous system disorder; Alzheimer's disease; infection; ocular disorder;
PR	KW corneal infection; wound healing; epithelial cell proliferation;
PR	KW skin ageing; food additive; preservative; antiproliferative.
PR	XX
PR	OS Homo sapiens.
PR	XX
PR	WO200155322-A2.
PR	XX
PR	PD 02-AUG-2001.
PR	XX
PR	PF 17-JAN-2001; 2001WO-US01341.
PR	XX
PR	31-JAN-2000; 2000US-0179065.
PR	PR 04-FEB-2000; 2000US-0180628.
PR	24-FEB-2000; 2000US-0184664.
PR	02-MAR-2000; 2000US-0186350.
PR	16-MAR-2000; 2000US-0188974.
PR	17-MAR-2000; 2000US-0190076.
PR	18-APR-2000; 2000US-0198123.
PR	19-MAY-2000; 2000US-0205515.
PR	07-JUN-2000; 2000US-0209467.
XX	New nucleic acid molecules encoding 461 human secreted proteins for diagnosis, preventing, treating or ameliorating medical conditions and used as food additives or preservatives -
PT	Rosen CA, Barash SC, Ruben SM;
PT	WPI: 2001-488733/53.
PT	DR P-PSDB; AAI1592.

PR 28-JUN-2000; 2000US-0214886.  
 PR 30-JUN-2000; 2000US-0215135.  
 PR 07-JUL-2000; 2000US-0216647.  
 PR 11-JUL-2000; 2000US-0217487.  
 PR 14-JUL-2000; 2000US-0218290.  
 PR 26-JUL-2000; 2000US-0220963.  
 PR 14-AUG-2000; 2000US-0224518.  
 PR 14-AUG-2000; 2000US-0224519.  
 PR 14-AUG-2000; 2000US-0225213.  
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 PR 14-AUG-2000; 2000US-0225265.  
 PR 14-AUG-2000; 2000US-0225267.  
 PR 14-AUG-2000; 2000US-0225759.  
 PR 18-AUG-2000; 2000US-02279.  
 PR 22-AUG-2000; 2000US-0226681.  
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 PR 22-AUG-2000; 2000US-0227182.  
 PR 23-AUG-2000; 2000US-0227009.  
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 PR 01-SEP-2000; 2000US-0229297.  
 PR 01-SEP-2000; 2000US-0229343.  
 PR 01-SEP-2000; 2000US-0229344.  
 PR 01-SEP-2000; 2000US-0231243.  
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 PR 08-SEP-2000; 2000US-0231414.  
 PR 08-SEP-2000; 2000US-0232080.  
 PR 08-SEP-2000; 2000US-0232081.  
 PR 12-SEP-2000; 2000US-0231968.  
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 PR 14-SEP-2000; 2000US-0233065.  
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 PR 25-SEP-2000; 2000US-0234997.  
 PR 25-SEP-2000; 2000US-0234998.  
 PR 27-SEP-2000; 2000US-0235834.  
 PR 27-SEP-2000; 2000US-0235836.  
 PR 29-SEP-2000; 2000US-0236367.  
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 PR 02-OCT-2000; 2000US-0237038.  
 PR 02-OCT-2000; 2000US-0237039.  
 PR 02-OCT-2000; 2000US-0237040.  
 PR 13-OCT-2000; 2000US-0239935.  
 PR 13-OCT-2000; 2000US-0239937.  
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 PR 20-OCT-2000; 2000US-0241221.  
 PR 20-OCT-2000; 2000US-0241785.

PR 20-OCT-2000; 2000US-0241786.  
 PR 20-OCT-2000; 2000US-0241787.  
 PR 20-OCT-2000; 2000US-0241808.  
 PR 20-OCT-2000; 2000US-0241826.  
 PR 01-NOV-2000; 2000US-0244617.  
 PR 08-NOV-2000; 2000US-0246474.  
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 PR 08-NOV-2000; 2000US-0246526.  
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 PR 17-NOV-2000; 2000US-0249224.  
 PR 17-NOV-2000; 2000US-0249245.  
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 PR 17-NOV-2000; 2000US-0249265.  
 PR 17-NOV-2000; 2000US-0249297.  
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 PR 17-NOV-2000; 2000US-0249300.  
 PR 01-DEC-2000; 2000US-0249245.  
 PR 01-DEC-2000; 2000US-0249391.  
 PR 05-DEC-2000; 2000US-0251030.  
 PR 05-DEC-2000; 2000US-0251988.  
 PR 05-DEC-2000; 2000US-0256719.  
 PR 06-DEC-2000; 2000US-0251479.  
 PR 08-DEC-2000; 2000US-0251856.  
 PR 08-DEC-2000; 2000US-0251868.  
 PR 08-DEC-2000; 2000US-0251869.  
 PR 08-DEC-2000; 2000US-0251989.  
 PR 08-DEC-2000; 2000US-0251990.  
 PR 11-DEC-2000; 2000US-0254097.  
 PR 05-JAN-2001; 2001US-0253678.

XX (HUMA-) HUMAN GENOME SCI INC.  
 XX  
 XX  
 XX DR WPI; 2001-488783/53.

PT New nucleic acid molecules encoding 461 human secreted proteins for  
 PT diagnosing, preventing, treating or ameliorating medical conditions and  
 PT used as food additives or preservatives -  
 XX  
 PS Disclosure; SEQ ID No 1609; 980pp; English.  
 XX  
 CC The invention relates to isolated nucleic acid molecules and their  
 CC encoded secreted proteins. The nucleic acids and proteins are used to  
 CC prevent, treat or ameliorate a medical condition in e.g. humans, mice,  
 CC rabbits, goats, horses, cats, dogs, chickens or sheep. They  
 CC are also used in diagnosing a pathological condition or susceptibility  
 CC to a pathological condition. Antibodies to the proteins can also

CC be used in alleviating symptoms associated with the disorders and in  
CC diagnostic immunoassays e.g. radioimmunoassays or enzyme linked  
CC immunosorbant assays (ELISA). Disorders which are diagnosed or treated  
CC include autoimmune diseases e.g. rheumatoid arthritis,  
CC hyperproliferative disorders e.g. neoplasms of the breast or liver,  
CC cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders  
CC e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g.  
CC Alzheimer's disease, infections caused by bacteria, viruses and fungi  
CC and ocular disorders e.g. corneal infection, and many other  
CC disorders listed in the specification. The polypeptides can also  
CC be used to aid wound healing and epithelial cell proliferation, to  
CC prevent skin aging due to sunburn, to maintain organs before  
CC transplantation, for supporting cell culture of primary tissues, to  
CC regenerate tissues and in chemotaxis. The polypeptides can also be used  
CC as a food additive or preservative to increase or decrease storage  
CC capabilities, fat content, lipid, protein, carbohydrate, vitamins,  
CC minerals, cofactors and other nutritional components. The present  
CC sequence is a genomic DNA encoding a partial novel secreted protein of  
CC the invention.

Query Match<sub>h</sub> 1.0%; Score 27; DB 22; Length 2717;  
Best Local Similarity 100.0%; Pred. No. 0.0076; Gaps 0;  
Matches 27; Conservative 0; Mismatches 0; Indels 0;

Qy 2149 tcatcagacatccataggacacacag 2175  
Db 962 tcatacagacaccaggacacaacag 988

Search completed: May 17, 2002, 09:32:07  
Job time: 67704 sec

Gencore version 4.5  
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OM nucleic - nucleic search, using SW modeL

Run on: May 16, 2002, 13:38:43 ; Search time 3793.77 Seconds

(without alignments)  
9861.842 Million cell updates/sec

Title: US-09-898-556A-3

Perfect score: 2772

Sequence: 1 caggcgcgtaactggttg.....ttcttacccatccctcacct 2772

Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Total number of hits satisfying chosen parameters:

27472414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : EST:\*

- 1: em\_estba:\*
- 2: em\_estbun:\*
- 3: em\_estin:\*
- 4: em\_estmu:\*
- 5: em\_estov:\*
- 6: em\_estpl:\*
- 7: em\_estro:\*
- 8: em\_htc:\*
- 9: gb\_est1:\*
- 10: gb\_est2:\*
- 11: gb\_htc:\*
- 12: gb\_gss:\*
- 13: em\_gss\_hum:\*
- 14: em\_gss\_inv:\*
- 15: em\_gss\_pln:\*
- 16: em\_gss\_vrt:\*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	721	26.0	1082	BM450709
2	677	24.4	1035	BM450740
3	585	21.1	1071	BE741389
4	581	21.0	590	AW245709
5	545	19.7	1009	BM449478
6	510	18.4	563	A166953
7	509	18.4	535	AL047439
8	492	17.7	558	A1802142
9	482	17.4	537	BE220142
10	471	17.0	624	BE178716
11	458	16.5	512	BF11754
12	454	16.4	505	BE465501
13	459	16.2	486	AW401692
14	419	15.1	486	AV720986
15	414	14.9	613	AW964787
16	413	14.9	697	BE391140
17	405	14.6	673	BG928720

Database : EST:\*

- 1: em\_estba:\*
- 2: em\_estbun:\*
- 3: em\_estin:\*
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- 6: em\_estpl:\*
- 7: em\_estro:\*
- 8: em\_htc:\*
- 9: gb\_est1:\*
- 10: gb\_est2:\*
- 11: gb\_htc:\*
- 12: gb\_gss:\*
- 13: em\_gss\_hum:\*
- 14: em\_gss\_inv:\*
- 15: em\_gss\_pln:\*
- 16: em\_gss\_vrt:\*

#### ALIGNMENTS

RESULT	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	COMMENT
1	BM450709	AGENCOURT_6394734 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:5494415	BM450709	BM450709.1	EST	human	Homo sapiens	
		5' mRNA sequence.					Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.	
		1 (bases 1 to 1082)						NIH-MGC http://mgc.ncbi.nlm.nih.gov/
		National Institutes of Health, Mammalian Gene Collection (MGC)						Upublished (1999)
		JOURNAL						Contact: Robert Strausberg, Ph.D.
		COMMENT						Email: cgabbs-r@mail.nih.gov
		Tissue Procurement: ATCC						
		CDNA Library Preparation: Life Technologies, Inc.						
		CDNA Library Arrayed by: The T.M.A.G.E. Consortium (LLNL)						
		DNA Sequencing by: Agencourt Bioscience Corporation						
		Clone distribution: MGC clone distribution information can be found through the T.M.A.G.E. Consortium/LLNL at:						
		http://image.llnl.gov						
		Plate: LIAW1219 row: k column: 24						
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		/lab_host="DH10B (phage-resistant)"						
		/lab_host="DH10B (vector)"						
		/note="Organ: eye; Vector: pCMV-SPOR6; Site_1: NotI;"						
		Site_2: SalI; Cloned unidirectionally; Primer: Oligo dT"						
		Average insert size 1.75 kb. Library constructed by Life						
		Technologies."						
		BASE COUNT						
		298 a						
		261 c						
		292 g						
		226 t						
		5 others						

ORIGIN

QY	2255	agacttgtatccatccaccctttaggaaattttcggtatccatggaggactgcac		Db	216	GCAGGGAGTGGCAAGCTTGTGTAAGTCATTAACACAGAGAAC	275
Db	625	AGACTGTATCCATCCACCTGAGGAGATTCCTGCTCATTTAGGCC		Qy	1918	acggaggggaaacctatgtggcaaggatgtggaaaggcttgcggggat	1977
Qy	2315	ttcctcacgtggatgg 2331		Db	276	ACGAGGGGAAACCTCTGTGCAAGAGCTTGGCAAGCTTGCGCAGTC	335
Db	685	TTCCTCACGTGGATGG 701		Qy	1978	acctcatgtacaccaggacacattcaggagaagaccttatattgcagaagtg	2037
RESULT	3			Db	336	ACCTCATAGACACCAGAGCACATTAGGAGAGACCTTATTCAGAAGT	395
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DEFINITION		60159455FL NIH_MGC_9 Homo sapiens CDNA clone IMAGE:3948468 5', mRNA sequence.		Db	396	GACGGGGCTTAGCGGAACCTTATCAGACACATCACAGGACATA	455
ACCESSION		BE741389		Qy	2098	aactttatgtataggaaatgtgtacggcctttagcaggaggatcat	2157
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SOURCE		human.		Qy	2158	accagagacacacacgtgtggctttcagccattgtctgatccaatgtgaga	2217
ORGANISM		Homo sapiens		Db	516	ACCGAGGACACACACAGCTGCGCTTTCAGCCATTGCTAGATCCA	575
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				Qy	2218	cattctgtgtgttattatcatggacatgtactgtatccatccacatcg	2277
REFERENCE	1	(bases 1 to 1071)		Db	576	CATCTGTGTTAGTGCATGAGACTGTACTGGTAACTGTATCTCCAC	635
AUTHORS		National Institutes of Health, Mammalian Gene Collection (MGC)		Qy	2278	aaggaaatgtgtgttatttcaggagccgtcc 2313	
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JOURNAL		Contact: Robert Strausberg, Ph.D.		FEATURES			
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DNA Sequencing by:	Incyte Genomics, Inc.						
ClONE		Library Arrayed by: The I.M.A.G.E. Consortium/LNL at: image.lnl.gov					
DNA distribution:	MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: image.lnl.gov						
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AUTHORS		NIH-MGC http://mgc.nci.nih.gov/					
TITLE		National Institutes of Health, Mammalian Gene Collection (MGC)					
JOURNAL		Unpublished (1999)					
COMMENT		Other ESTs: 2823003_3prime					
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JOURNAL		Unpublished (1999)					
COMMENT		Other ESTs: 2823003_3prime					
ORGANISM		Human					
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.							
REFERENCE	1	(bases 1 to 590)					
AUTHORS		NIH-MGC http://mgc.nci.nih.gov/					
TITLE		National Institutes of Health, Mammalian Gene Collection (MGC)					
JOURNAL		Unpublished (1999)					
COMMENT		Other ESTs: 2823003_3prime					
ORGANISM		Human					
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.							
REFERENCE	1	(bases 1 to 590)					
AUTHORS		NIH-MGC http://mgc.nci.nih.gov/					
TITLE		National Institutes of Health, Mammalian Gene Collection (MGC)					
JOURNAL		Unpublished (1999)					
COMMENT		Other ESTs: 2823003_3prime					
ORGANISM		Human					
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.							
REFERENCE	1	(bases 1 to 590)					
AUTHORS		NIH-MGC http://mgc.nci.nih.gov/					
TITLE		National Institutes of Health, Mammalian Gene Collection (MGC)					
JOURNAL		Unpublished (1999)					
COMMENT		Other ESTs: 2823003_3prime					
ORGANISM		Human					
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.							
REFERENCE	1	(bases 1 to 590)					
AUTHORS		NIH-MGC http://mgc.nci.nih.gov/					
TITLE		National Institutes of Health, Mammalian Gene Collection (MGC)					
JOURNAL		Unpublished (1999)					
COMMENT		Other ESTs: 2823003_3prime					
ORGANISM		Human					
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.							
REFERENCE	1	(bases 1 to 590)					
AUTHORS		NIH-MGC http://mgc.nci.nih.gov/					
TITLE		National Institutes of Health, Mammalian Gene Collection (MGC)					
JOURNAL		Unpublished (1999)					
COMMENT		Other ESTs: 2823003_3prime					
ORGANISM		Human					
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.							
REFERENCE	1	(bases 1 to 590)					
AUTHORS		NIH-MGC http://mgc.nci.nih.gov/					
TITLE		National Institutes of Health, Mammalian Gene Collection (MGC)					
JOURNAL		Unpublished (1999)					
COMMENT		Other ESTs: 2823003_3prime					
ORGANISM		Human					

/note="Organ: lung; vector: POTB7; Site\_1: Xhol; Site\_2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XbaI sites using the following 5' adaptor: GGCGAGG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). " BASE COUNT ORIGIN

192	a	127	c	161	g	110	t
-----	---	-----	---	-----	---	-----	---

**COMMENT**

Contact: Robert Strausberg, Ph.D.  
Email: cgsaps@mail.nih.gov

Tissue Procurement: ARCC  
cDNA Library Preparation: Life Technologies, Inc.  
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)  
DNA Sequencing by: Agencourt Bioscience Corporation  
Clone Distribution: MGC clone distribution information can be  
found through the I.M.A.G.E. Consortium/LNL at:  
<http://image.llnl.gov>  
Plate: LLM2117 row: m column: 14  
High quality sequence stop: 649.





FEATURES		RESULT		DEFINITION	
source		BE178716	BE178715	PM#-HT0606-030400-001-c10	HT0606 mRNA sequence.
		LOCUS	DEFINITION	HT0606	mRNA linear CDNA, mRNA sequence.
		CDNA Library Arrayed by: Gregg Lennon, Ph.D.	ACCESSION	BE178716	
		DNA Sequencing by: Washington University Genome Sequencing Center	VERSION	BE178715.1	GI:8657868
		Clone distribution by: NCI-CGAP clone distribution information can be found through the T.M.A.G.E. Consortium/LINL, send email to: info@image.lnl.gov	KEYWORDS	EST.	
		Seq primer: -40UP from Gibco	SOURCE	Homo sapiens	
		High quality sequence stop: 450.	ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	
		Location/Qualifiers		1 (bases 1 to 624)	
		1..537 /organism="Homo sapiens"	AUTHORS	Dias Neto, E., Garcia Correa,R., Verjovski Almeida,S., Briones,M.R., Nairi,M.A., da Silva,W. JR., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare ,M.J., Soares,F., Brentani,I.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.	
		/note="Organelle: Mitochondrion; Vector: pRIT73D-Pac (Pharmacia) with a modified polylinker; Plasmid DNA from the normalized library NCI_CGAP_Lu5 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction; The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (clones IDs 1414920-1417991 and 1520904-1522439). Subtraction by Bento Soares and M. Fatima Bonaldo."	JOURNAL	Ludwig Institute for Cancer Research Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil	
		BASE COUNT	MEDLINE	Contact: Simpson A.J.G. Tel: +55-11-2704922 Fax: +55-11-2707001 Email: asimpon@ludwig.org.br	
		ORIGIN	COMMENT	This sequence was derived from the FABESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL ( <a href="http://www.ludwig.org.br/scripts/gethtml2.pl?tl=st2-PMA-Ht0606-030400-01-c10&amp;t3=2000-04-03&amp;t4=1">http://www.ludwig.org.br/scripts/gethtml2.pl?tl=st2-PMA-Ht0606-030400-01-c10&amp;t3=2000-04-03&amp;t4=1</a> )	
		Query Match	TITLE	Seq primer: puc 18 forward	
		Best Local Similarity	JOURNAL	High quality sequence start: 9	
		99.8%	MEDLINE	/dev.stsage="Adult"	
		Pred. No.	COMMENT	/note="Organ: head, neck; Vector: puc18; Site_1: Small; Site_2: Small; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."	
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		Indels			
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		Gaps			
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		144 g			
		125 t			
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		Gaps			
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FEATURES  
source

location/Qualifiers

1. .505

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/db\_xref="txon:9606"

/clone="IMAGE:3183843"

/clone\_id="NCI\_CGAP\_Kid11"

/lab\_host="DH10B"

/note="Organ: kidney; Vector: pRT3D-Pac (Pharmacia) with

a modified polylinker; Site\_1: Not I; Site\_2: Eco RI;

Title: Unpublished (1999)

Journal: Contact: Robert Strausberg, Ph.D.

Email: cgaps-remail.nih.gov

Eco RI site shown at the beginning of the sequence.

Tissue Procurement: Louis M. Staudt, M.D., Ph.D.

CDNA Library Preparation: M.B. Soares Lab

CDNA Library Arrayed by: M.B. Soares Lab

DNA Sequencing by: M.B. Soares Lab

Clone distribution: MGC Clone distribution information can be

found through the T.M.A.G.E. Consortium/LINL at:

[www-bio1.nln.gov/fbrp/](http://bio1.nln.gov/fbrp/)

Seq primer: M13 Forward.

Location/Qualifiers

1. .486

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/db\_xref="taxon:606"

/clone="IMAGE:303549"

/clone\_id="NIH-MGC\_36"

/tissue\_type="Lymph"

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/cell\_line="MGC85"

/lab\_host="DH10B (LNU)"

/note="vector: pRT3-Pac; site\_1: NotI; site\_2: Eco RI;

Constructed from size fractionated cytoplasmic mRNA

(0.5-1.5Kb). Directionally cloned. Cells provided by Louis

M. Staudt, Ph.D. Library Preparation by Maria de Fatima

Bonaldo, Ph.D. and M. Bento Soares, Ph.D."

Others

1 others

**RESULT** 15  
**AWLUS4787/C** AW964787 bp mRNA linear EST 01-JUN-2000  
**DEFINITION** EST375980 MAGE resequences, MAGH Homo sapiens cDNA, mRNA sequence.  
**ACCESSION** AW964787  
**VERSION** AW964787.1 GI:8154743  
**KEYWORDS** EST.  
**SOURCE** ORGANISM  
**Homo sapiens**  
**Eukaryota; Metazoa; Chordata; Craniata; vertebrata; Euteleostomi;**  
**Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.**  
**REFERENCE** 1 (bases 1 to 613)  
**AUTHORS** Hodge, P., Oi, R., Abernathy, K., Dharap, S., Gaspard, R., Gay, C., Holt, I.E., Saeed, A.I., Sharov, V.V., Lee, N.H., Yeatman, T.J. and Quackenbush, J.  
**TITLE** Assessment of gene expression patterns in a model of colon tumor metastasis using a 19,200 element cDNA microarray  
**JOURNAL** Unpublished (2000)  
**COMMENT** Contact: John Quackenbush  
The Institute for Genomic Research  
9712 Medical Center Dr., Rockville, MD 20850, USA  
Tel: 301 838 3528  
Fax: 301 838 0208  
Email: Johnq@tigr.org  
Plate: 207  
Seq primer: Forward.  
FEATURES source Location/Qualifiers  
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ORIGIN

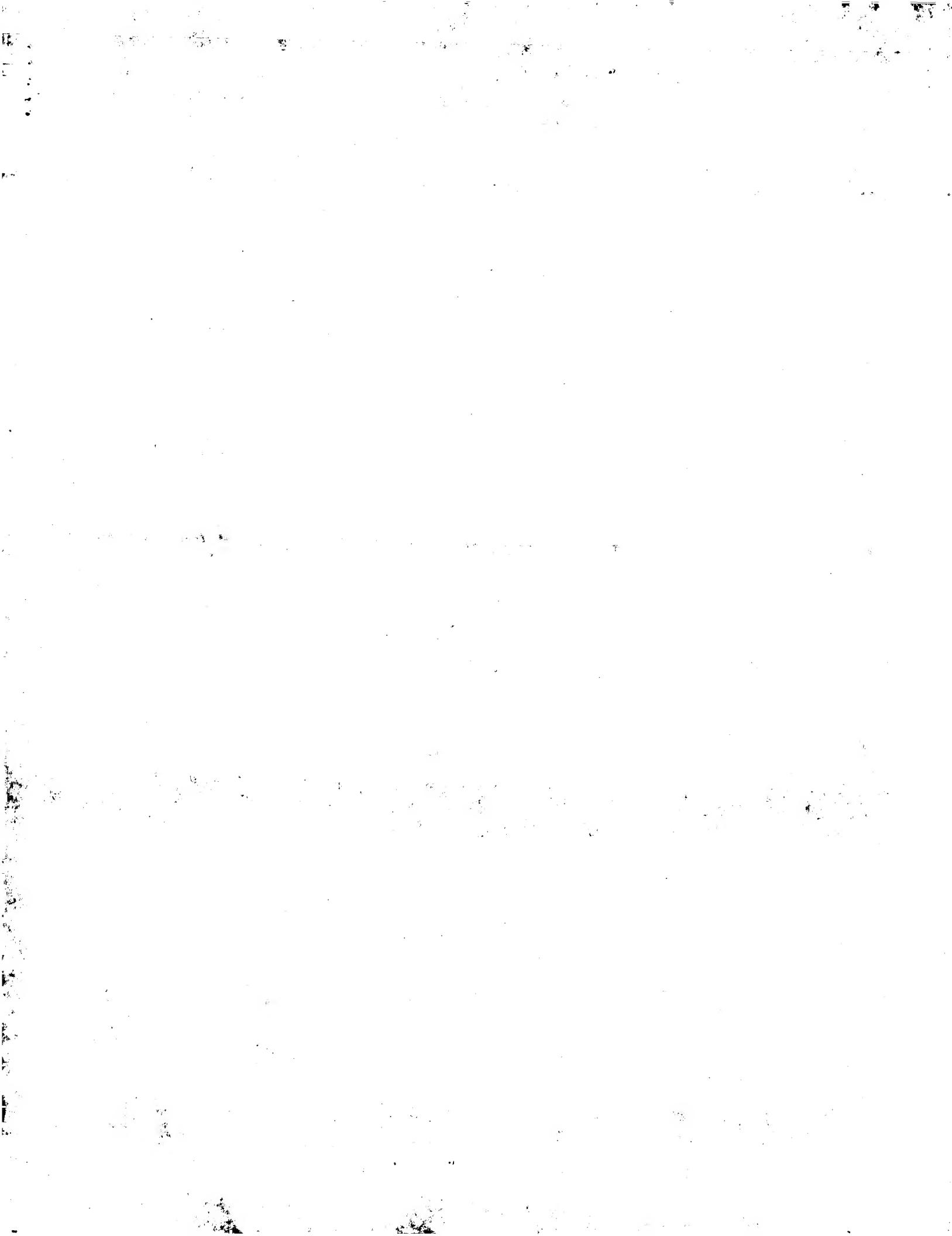
**Query Match** 14.9%; Score 414; DB 9; Length 613;  
**Best Local Similarity** 99.8%; **Pred.** No. 1.e-206; **Mismatches** 1; **Indels** 0; **Gaps** 0;  
**Matches** 464; **Conservative** 0; **Mismatches** 1; **Indels** 0; **Gaps** 0;

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**Db** 544 TGTGTTGATATTGCATGAGACTGTCTGGTAAGACTGTGATCCTCCATCCACCTGAGGA 485.  
**QY** 2283 gaatgtcgatgttttttaggaggccctggccttcacgtggatggatggatggatggatggaa 2342  
**Db** 484 GAATGTGCTGCTCAATTTCAGGAGGCCCTGCCTTCCTACGTGGAGGTGGTGGGA 425  
**QY** 2343 aaccggtcaggteatgtatgtggcggaggcgtcaatggccaggatagggtgg 2402  
**Db** 424 AACCGGGTCAGGTATGTGATAGTGGAGGAGCAGTCAAATGCCCGAGATGGGG 365  
**QY** 2403 gtacctgtggaaacccaacccatctaaggcttaaaggcttgcataatccctcatctggaa 2462  
**Db** 364 GTACCTGTGAAACCCACCTTAAGCTGAGACACTCCCGCTAAATCCCATAGTGA 305  
**QY** 2463 ttggaaacctgtttcccttgggtgtttcccgatgttccaaaccttccctta 2522  
**Db** 304 TTGAGAACCGCTGTCCTCCCATTTGGGTGCTTCCTCCGATGTGATCCCACCTTACCTA 245  
**QY** 2523 tttagatccatgcgccttctcaattgtttactgtgtggccacctttgtgttgg 2582  
**Db** 244 TTTCAGTATACCTGCCCTTCTTAAATGTTTTRACACTGTGTCGCCACCTTGAGT 185  
**QY** 2583 ggtagccctttgcatacttacaatctgttccatgttccatatttttgaggccccataaa 2642  
**Db** 184 GGCGCTTGTGATCTTCAATGCTACGTCACTGTAACGTGATTCCTTATTGAGGCCATAAA 125  
**QY** 2643 gacccaggatctgtgtggatggaggagaatccctttgtgttgg 2687  
**Db** 124 GACCCAGACTCAGTGTGAGGTGGAGGAGATCACCCCTGGTGGG 80

Sat May 18 14:46:07 2002

us-09-898-556a-3.rst

Search completed: May 17, 2002, 09:22:49  
Job time: 71046 sec



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(c) 1993 - 2000 Compugen Ltd.

OM nucleic : nucleic search, using sw model

Run on: May 17, 2002, 13:55:18 ; Search time 105.07 Seconds  
(without alignments)

Title: US-09-898-556A-3

Perfect score: 2772

Sequence: 1 caaggcgcttaactggttg.....ttcttacccatccatcacct 2772

Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Searched: 383533 seqs, 122816752 residues

Word size : 0

Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued\_Patents\_NA:\*

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- 2: /ccn2\_6/patdata/1/ina/5B\_COMB.seq:\*
- 3: /ccn2\_6/patdata/1/ina/6A\_COMB.seq:\*
- 4: /ccn2\_6/patdata/1/ina/6B\_COMB.seq:\*
- 5: /ccn2\_6/patdata/1/ina/PCTUS\_COMB.seq:\*
- 6: /ccn2\_6/patdata/1/ina/backfileseq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	Query Match Length	DB ID	Description
1	21	0.8	2382	4 US-09-588-256-9
2	20	0.7	1892	2 US-09-933-750C-66
3	20	0.7	1892	3 US-09-234-613-66
4	19	0.7	3240	4 US-09-262-773-7
5	19	0.7	3244	4 US-09-262-773-3
6	19	0.7	3264	4 US-09-262-773-5
7	19	0.7	3268	4 US-09-262-773-1
8	19	0.7	3810	2 US-09-275-844-8
9	19	0.7	3810	5 PCT-US95-08429-B
10	19	0.7	20137	4 US-09-262-773-206
11	19	0.7	20138	4 US-09-262-773-9
12	19	0.7	23071	4 US-09-262-773-210
13	19	0.7	246240	2 US-08-724-394A-20
14	19	0.7	246240	2 US-08-724-394A-21
15	19	0.7	246240	2 US-08-724-394A-22
16	18	0.6	575	1 US-08-507-016-8
17	18	0.6	1027	1 US-09-303-524A-1
18	18	0.6	1558	1 US-08-416-870C-9
19	18	0.6	2133	2 US-08-820-170A-11
20	18	0.6	2133	3 US-08-599-11
21	18	0.6	2133	4 US-09-273-565-11
22	18	0.6	2133	4 US-09-565-538-11
23	18	0.6	3754	2 US-08-820-170A-12
24	18	0.6	3754	3 US-09-055-699-12
25	18	0.6	3754	4 US-09-273-565-12
26	18	0.6	3754	4 US-09-565-538-12
27	18	0.6	7886	2 US-08-751-189-2

**ALIGNMENTS**

RESULT 1  
US-09-588-256-9  
; Sequence 9, Application US/09588256  
; Patent No. 6291665  
; GENERAL INFORMATION:  
; APPLICANT: Gaffney, Thomas  
; APPLICANT: Flavvier, Albert  
; APPLICANT: Gates, Krista  
; APPLICANT: Wendland, Juergen  
; APPLICANT: Ayad-Durieux, Yasmina  
; APPLICANT: Dierrich, Fred  
; APPLICANT: Philipsen, Peter  
; TITLE OF INVENTION: Fungal Target Genes and Methods  
; FILE REFERENCE: PB/5-30908A  
; CURRENT APPLICATION NUMBER: US/09/588, 256  
; CURRENT FILING DATE: 2000-06-06  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO: 9  
; LENGTH: 2382  
; TYPE: DNA  
; ORGANISM: Ashbya gossypii  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2382)

US-09-588-256-9

Query Match Similarity 0.8%; Score 21; DB 4; Length 2382; Best Local Similarity 100.0%; Pred. No. 1.1; Mismatches 0; Indels 0; Gaps 0;

Matches 21; Conservative 21; Mismatches 0; Indels 0; Gaps 0;

SEQUENCE 9  
QY 1875 ggcttttgtgtcaacttact 1895  
Db 1990 ggcttttgtgtcaacttact 2010

RESULT 2  
US-08-933-750C-66  
; Sequence 66, Application US/08933750C  
; Patent No. 5932442  
; GENERAL INFORMATION:  
; APPLICANT: Lal, Preeti  
; APPLICANT: Hillman, Jennifer L.  
; APPLICANT: Bandman, Olga  
; APPLICANT: Shah, Purvi  
; APPLICANT: Au-Young, Janice  
; APPLICANT: Yue, Henry  
; APPLICANT: Guegler, Karl J.  
; APPLICANT: Corley, Neil C.



RESULT 5 ; US-09-262-773-3  
; Sequence 3, Application US/09262773  
; Patent No. 6225451  
; GENERAL INFORMATION:  
; APPLICANT: Ballinger, Dennis G.  
; APPLICANT: Ding, Wei  
; APPLICANT: Wagner, Susanne  
; APPLICANT: Hess, Mark A.  
; TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE  
; FILE REFERENCE: Myriad 3  
; CURRENT APPLICATION NUMBER: US/09/262-773  
; CURRENT FILING DATE: 1999-03-04  
; NUMBER OF SEQ ID NOS: 210  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 3244  
; TYPE: DNA  
; ORGANISM: human  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (98)..(2017)  
; US-09-262-773-3

Query Match 0.7%; Score 19; DB 4; Length 3244;  
Best Local Similarity 100.0%; Pred. No. 11; Mismatches 0; Indels 0; Gaps 0;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2068 tcagacatcagaggacaca 2086  
Db 1563 tcagacatcagaggacaca 1581

RESULT 6 ; US-09-262-773-5  
; Sequence 5, Application US/09262773  
; Patent No. 6225451  
; GENERAL INFORMATION:  
; APPLICANT: Ballinger, Dennis G.  
; APPLICANT: Ding, Wei  
; APPLICANT: Wagner, Susanne  
; APPLICANT: Hess, Mark A.  
; TITLE OF INVENTION: SUSCEPTIBILITY GENE CHD1  
; FILE REFERENCE: Myriad 3  
; CURRENT APPLICATION NUMBER: US/09/262-773  
; CURRENT FILING DATE: 1999-03-04  
; NUMBER OF SEQ ID NOS: 210  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 3268  
; TYPE: DNA  
; ORGANISM: human  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (98)..(2041)  
; US-09-262-773-1

Query Match 0.7%; Score 19; DB 4; Length 3268;  
Best Local Similarity 100.0%; Pred. No. 11; Mismatches 0; Indels 0; Gaps 0;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2068 tcagacatcagaggacaca 2086  
Db 1587 tcagacatcagaggacaca 1605

RESULT 8 ; US-08-75-844-8  
; Sequence 8, Application US/08475844  
; Patent No. 5975643  
; GENERAL INFORMATION:  
; APPLICANT: Lobanenkov, Victor V.  
; APPLICANT: Neiman, Paul E.  
; APPLICANT: Klenova, Elena M.  
; APPLICANT: Godkin, Graham H.  
; APPLICANT: Filippova, Galina N.  
; APPLICANT: Collins, Steven J.  
; TITLE OF INVENTION: CTCF  
; NUMBER OF SEQUENCES: 21  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Khourie and Crew  
; STREET: One Market Plaza  
; CITY: San Francisco  
; STATE: CA  
; COUNTRY: USA  
; ZIP: 94105  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/475,844  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 535  
; PRIORITY APPLICATION DATA:  
; APPLICATION NUMBER: 08/261,680  
; FILING DATE: 17-JUN-1994  
; CLASSIFICATION: 535  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Parnelee, Steven W.  
; REGISTRATION NUMBER: 31,990  
; REFERENCE/DOCKET NUMBER: 14538A-11-1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 206-467-9600

Query Match 0.7%; score 19; DB 4; Length 3264;  
Best Local Similarity 100.0%; Pred. No. 11; Mismatches 0; Indels 0; Gaps 0;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2068 tcagacatcagaggacaca 2086  
Db 1583 tcagacatcagaggacaca 1601

RESULT 7

TELEFAX: 415-543-5943  
 INFORMATION FOR SEQ ID NO: 8:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3810 base pairs  
 STRANDEDNESS: double  
 TOPOLogy: linear  
 MOLECULE TYPE: cDNA  
 ORIGINAL SOURCE:  
 TYPE: nucleic acid  
 ORGANISM: Homo sapiens  
 IMMEDIATE SOURCE:  
 CLONE: human CTCF cDNA  
 FEATURE:  
 NAME/KEY: CDS  
 LOCATION: 292..2475  
 FEATURE:  
 NAME/KEY: exon1  
 LOCATION: 281..1074  
 OTHER INFORMATION: /label= exon2  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1075..1245  
 OTHER INFORMATION: /label= exon3  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1246..1379  
 OTHER INFORMATION: /label= exon4  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1380..1499  
 OTHER INFORMATION: /label= exon5  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1450..1649  
 OTHER INFORMATION: /label= exon6  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1650..1810  
 OTHER INFORMATION: /label= exon7  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1810..1992  
 OTHER INFORMATION: /label= exon8  
 US-08-475-844-8

RESULT 9  
 PCT-US95-08429-8  
 Sequence 8 Application PC/US9508429  
 GENERAL INFORMATION:  
 APPLICANT:  
 TITLE OF INVENTION: CTCF  
 NUMBER OF SEQUENCES: 21  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: PCT/US95/08429  
 FILING DATE: 15-JUN-1995  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/261,680

FILING DATE: 17-JUN-1994  
 CLASSIFICATION:  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Parmelee, Steven W.  
 REGISTRATION NUMBER: 31,990  
 REFERENCE/DOCKET NUMBER: 14538A-11-1PC  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 206-467-9600  
 TELEFAX: 415-543-5943  
 INFORMATION FOR SEQ ID NO: 8:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 3810 base pairs  
 STRANDEDNESS: double  
 TOPOLogy: linear  
 MOLECULE TYPE: cDNA  
 ORIGINAL SOURCE:  
 TYPE: nucleic acid  
 ORGANISM: Homo sapiens  
 IMMEDIATE SOURCE:  
 CLONE: human CTCF cDNA  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1075..1245  
 OTHER INFORMATION: /label= exon3  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1246..1379  
 OTHER INFORMATION: /label= exon2  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1380..1499  
 OTHER INFORMATION: /label= exon4  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1450..1649  
 OTHER INFORMATION: /label= exon5  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1650..1810  
 OTHER INFORMATION: /label= exon6  
 FEATURE:  
 NAME/KEY: exon  
 LOCATION: 1810..1992  
 OTHER INFORMATION: /label= exon7  
 PCT-US95-08429-8

Query Match 0.7%; Score 19; DB 2; Length 3810;  
 Best Local Similarity 100.0%; Pred. No. 10; Mismatches 0; Indels 0; Gaps 0;  
 Matches 19; Conservative 0; MisMatches 0; Indels 0; Gaps 0;

QY 1755 cattcaaggaaagccct 1773  
 Db 1492 CATTCAGGGAAAGCCT 1510

RESULT 10  
 US-09-262-773-206  
 Sequence 206 Application US/09262773  
 GENERAL INFORMATION:  
 Patent No. 6225451  
 APPLICANT: Ballinger, Dennis G.  
 APPLICANT: Ding, Wei  
 APPLICANT: Wagner, Susanne  
 APPLICANT: Hess, Mark A.  
 TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE

TITLE OF INVENTION: SUSCEPTIBILITY GENE CHDL  
FILE REFERENCE: Myriad 3  
CURRENT APPLICATION NUMBER: US/09/262,773  
CURRENT FILING DATE: 1999-03-04  
NUMBER OF SEQ ID NOS: 210  
; SOFTWARE: PatentIn Ver. 2.0  
; LENGTH: 20137  
; ORGANISM: human  
; US-09-262-773-206

Query Match 0.7%; Score 19; DB 4; Length 20137;  
Best Local Similarity 100.0%; Pred. No. 10; Mismatches 0; Indels 0; Gaps 0;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2068 tcacacatcgaggacaca 2086  
Db 14680 tcagacatcagaggacaca 14698

RESULT 11  
Sequence 9, Application US/09262773  
PATENT NO. 6225451  
GENERAL INFORMATION:  
APPLICANT: Ballinger, Dennis G.  
APPLICANT: Ding, Wei  
APPLICANT: Wagner, Susanne  
APPLICANT: Hess, Mark A.  
TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE  
FILE REFERENCE: Myriad 3  
CURRENT APPLICATION NUMBER: US/09/262,773  
CURRENT FILING DATE: 1999-03-04  
NUMBER OF SEQ ID NOS: 210  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO. 9  
LENGTH: 20138  
TYPE: DNA  
; ORGANISM: human  
; US-09-262-773-9

Query Match 0.7%; Score 19; DB 4; Length 20138;  
Best Local Similarity 100.0%; Pred. No. 10; Mismatches 0; Indels 0; Gaps 0;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2068 tcacacatcgaggacaca 2086  
Db 14681 tcagacatcagaggacaca 14699

RESULT 12  
US-09-262-773-210  
SEQUENCE 210, Application US/09262773  
PATENT NO. 6225451  
GENERAL INFORMATION:  
APPLICANT: Ballinger, Dennis G.  
APPLICANT: Ding, Wei  
APPLICANT: Wagner, Susanne  
APPLICANT: Hess, Mark A.  
TITLE OF INVENTION: CHROMOSOME 11-LINKED CORONARY HEART DISEASE  
FILE REFERENCE: Myriad 3  
CURRENT APPLICATION NUMBER: US/09/262,773  
CURRENT FILING DATE: 1999-03-04  
NUMBER OF SEQ ID NOS: 210  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO. 210  
LENGTH: 23071  
TYPE: DNA

Query Match 0.7%; Score 19; DB 4; Length 23071;  
Best Local Similarity 100.0%; Pred. No. 10; Mismatches 0; Indels 0; Gaps 0;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2068 tcagacatcgaggacaca 2086  
Db 17614 tcagacatcagaggacaca 17632

RESULT 13  
US-09-262-773-210  
SEQUENCE 20, Application US/08724394A  
PATENT NO. 5872237  
GENERAL INFORMATION:  
APPLICANT: Feder, John N.  
APPLICANT: Kronmal, Gregory S.  
APPLICANT: Lauer, Peter M.  
APPLICANT: Ruddy, David A.  
APPLICANT: Thomas, Winston  
APPLICANT: Tsuchihashi, Zenta  
APPLICANT: Wolff, Roger K.  
TITLE OF INVENTION: Megabase Transcript Map: No. 5872237el  
TITLE OF INVENTION: Sequences and Antibodies Thereto  
NUMBER OF SEQUENCES: 31  
CORRESPONDENCE ADDRESS:  
ADDRESS: TOWNSEND and TOWNSEND and CREW LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/774,394A  
FILING DATE: 01-OCT-1996  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Fitts, Renee A.  
REGISTRATION NUMBER: 35,136  
REFERENCE/DOCKET NUMBER: 017957-000100  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-576-0200  
TELEFAX: 415-576-0300  
INFORMATION FOR SEQ ID NO: 20:  
SEQUENCE CHARACTERISTICS:  
SEQUENCE: 246240 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 1..246240  
OTHER INFORMATION: /note= "HLA-H.CONFIG"  
; US-08-724-394A-20

Query Match 0.7%; Score 19; DB 2; Length 246240;  
Best Local Similarity 100.0%; Pred. No. 10;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2298 ttccaggagccgtgcctt 2316  
Db 36115 TTTCAGGAGCCCTGCCTT 36097

RESULT 14  
US-08-724-394A-21/C  
; Sequence 21, Application US/08724394A  
; Patent No. 5872237  
GENERAL INFORMATION:  
APPLICANT: Feder, John N.  
APPLICANT: Kronmal, Gregory S.  
APPLICANT: Lauer, Peter M.  
APPLICANT: Ruddy, David A.  
APPLICANT: Thomas, Winston  
APPLICANT: Tsuichihashi, Zenta  
APPLICANT: Wolff, Roger K.  
TITLE OF INVENTION: Megabase Transcript Map: No. 5872237el  
TITLE OF INVENTION: Sequences and Antibodies Thereto  
NUMBER OF SEQUENCES: 31  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP  
STREET: Two Embarcadero Center, 8th Floor  
CITY: San Francisco  
STATE: CA  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
COMPUTER TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/724,394A  
FILING DATE: 01-OCT-1996  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: Fitts, Renee A.  
REGISTRATION NUMBER: 35,136  
REFERENCE DOCKET NUMBER: 017957-000100  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-576-0200  
TELEFAX: 415-576-0300  
INFORMATION FOR SEQ ID NO: 21:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 246240 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: not relevant  
TOPOLOGY: not relevant  
MOLECULE TYPE: cDNA  
FEATURE:  
NAME/KEY: misc\_feature  
LOCATION: 1..246240  
OTHER INFORMATION: /note= "HLA-H.CONFIG"  
; US-08-724-394A-21  
Query Match 0.7%; Score 19; DB 2; Length 246240;  
Best Local Similarity 100.0%; Pred. No. 10; Mismatches 0; Indels 0; Gaps 0;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 2298 ttccaggagccctgcctt 2316  
Db 36115 TTTCAGGAGCCCTGCCTT 36097  
RESULT 15  
US-08-724-394A-22/C  
; Sequence 22, Application US/08724394A  
; Patent No. 5872237  
GENERAL INFORMATION:  
APPLICANT: Feder, John N.  
APPLICANT: Kronmal, Gregory S.  
APPLICANT: Lauer, Peter M.  
APPLICANT: Ruddy, David A.  
APPLICANT: Thomas, Winston  
APPLICANT: Tsuichihashi, Zenta  
Search completed: May 17, 2002, 16:27:42  
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Sat May 18 14:46:06 2002

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